```
MMM       MMM     AAAAAAAAA      IIIIIIIIII    LLL
MMM       MMM     AAAAAAAAA      IIIIIIIIII    LLL
MMM       MMM     AAAAAAAAA      IIIIIIIIII    LLL
MMMMMM  MMMMMM  AAA        AAA       III        LLL
MMMMMM  MMMMMM  AAA        AAA       III        LLL
MMMMMM  MMMMMM  AAA        AAA       III        LLL
MMM  MMM  MMM  AAA        AAA       III        LLL
MMM  MMM  MMM  AAA        AAA       III        LLL
MMM  MMM  MMM  AAA        AAA       III        LLL
MMM       MMM  AAA        AAA       III        LLL
MMM       MMM  AAA        AAA       III        LLL
MMM       MMM  AAAAAAAAAAAAAAAAA    III        LLL
MMM       MMM  AAAAAAAAAAAAAAAAA    III        LLL
MMM       MMM  AAAAAAAAAAAAAAAAA    III        LLL
MMM       MMM  AAA        AAA       III        LLL
MMM       MMM  AAA        AAA       III        LLL
MMM       MMM  AAA        AAA   IIIIIIIIII  LLLLLLLLLLLLLLL
MMM       MMM  AAA        AAA   IIIIIIIIII  LLLLLLLLLLLLLLL
MMM       MMM  AAA        AAA   IIIIIIIIII  LLLLLLLLLLLLLLL
```

```
   SSSSSSSS   EEEEEEEEEE  TTTTTTTTTT
   SSSSSSSS   EEEEEEEEEE  TTTTTTTTTT
SS             EE             TT
SS             EE             TT
SS             EE             TT
SS             EE             TT
   SSSSSS     EEEEEEEE         TT
   SSSSSS     EEEEEEEE         TT
        SS     EE              TT
        SS     EE              TT
        SS     EE              TT
        SS     EE              TT        ....
SSSSSSSS     EEEEEEEEEE        TT        ....
SSSSSSSS     EEEEEEEEEE        TT        ....
```

```
LL          IIIIII       SSSSSSSS
LL          IIIIII       SSSSSSSS
LL            II       SS
LL            II       SS
LL            II       SS
LL            II       SS
LL            II          SSSSSS
LL            II          SSSSSS
LL            II                SS
LL            II                SS
LL            II                SS
LL            II                SS
LLLLLLLLLL   IIIIII       SSSSSSSS
LLLLLLLLLL   IIIIII       SSSSSSSS
```

```
    1       0001    0  MODULE MAIL$SET( %TITLE 'VAX/VMS MAIL UTILITY SET COMMAND'
    2       0002    0                  IDENT = 'V04-000' ) =
    3       0003    1  BEGIN
    4       0004    1
    5       0005    1  !
    6       0006    1  !*******************************************************************
    7       0007    1  !*                                                                 *
    8       0008    1  !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                       *
    9       0009    1  !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.        *
   10       0010    1  !*   ALL RIGHTS RESERVED.                                          *
   11       0011    1  !*                                                                 *
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   13       0013    1  !*   ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH LICENSE  AND WITH THE   *
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   15       0015    1  !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
   16       0016    1  !*   OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
   17       0017    1  !*   TRANSFERRED.                                                   *
   18       0018    1  !*                                                                 *
   19       0019    1  !*   THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
   20       0020    1  !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
   21       0021    1  !*   CORPORATION.                                                   *
   22       0022    1  !*                                                                 *
   23       0023    1  !*   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
   24       0024    1  !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.        *
   25       0025    1  !*                                                                 *
   26       0026    1  !*                                                                 *
   27       0027    1  !*******************************************************************
   28       0028    1  !
   29       0029    1  !
   30       0030    1  !++
   31       0031    1  !  FACILITY:       VAX/VMS MAIL UTILITY
   32       0032    1  !
   33       0033    1  !  ABSTRACT:       SET command handling.
   34       0034    1  !
   35       0035    1  !  AUTHOR:         Benn Schreiber, 5-Dec-1982
   36       0036    1  !
   37       0037    1  !  MODIFIED BY:
   38       0038    1  !
   39       0039    1  !       V03-010 BLS0255          Benn Schreiber          28-Dec-1983
   40       0040    1  !               New global flags
   41       0041    1  !
   42       0042    1  !       V03-009 BLS0246          Benn Schreiber          8-Nov-1983
   43       0043    1  !               Rework for new VMSMAIL.DAT handling, move new mail
   44       0044    1  !               count to VMSMAIL.
   45       0045    1  !
   46       0046    1  !       V03-008 BLS0229          Benn Schreiber          29-Jul-1983
   47       0047    1  !               Add SET NOMAIL_DIRECTORY command
   48       0048    1  !
   49       0049    1  !       V03-007 BLS0225          Benn Schreiber          17-Jun-1983
   50       0050    1  !               Minimize window of confusion in SET MAIL_DIRECTORY.  Enforce
   51       0051    1  !               restriction that personal name must start with alphabetic
   52       0052    1  !               character (informal personal name spec agreement with
   53       0053    1  !               RSX and ARPA-interface mail developers).
   54       0054    1  !
   55       0055    1  !       V03-006 BLS0222          Benn Schreiber          7-May-1983
   56       0056    1  !               Disallow setting the wastebasket folder to MAIL or NEWMAIL
   57       0057    1  !
```

```
  58    0058  1 !        V03-005 BLS0220       Benn Schreiber        30-Apr-1983
  59    0059  1 !                Add SET MAIL_DIRECTORY,SET AUTO_PURGE
  60    0060  1 !
  61    0061  1 !        V03-004 BLS0217       Benn Schreiber        12-Apr-1983
  62    0062  1 !                Add SET COPY_SELF
  63    0063  1 !
  64    0064  1 !        V03-003 BLS0211       Benn Schreiber        13-Mar-1983
  65    0065  1 !                New commands for ISAM mail files
  66    0066  1 !
  67    0067  1 !        V03-002 BLS0202       Benn Schreiber        5-Jan-1982
  68    0068  1 !                Check strings for illegal length/characters
  69    0069  1 !--
```

```
 71        0070  1  !
 72        0071  1  !  Declarations
 73        0072  1  !
 74        0073  1  LIBRARY 'SYS$LIBRARY:LIB';
 75        0074  1  REQUIRE 'SRC$:MAILREQ';
 76        0220  1  LIBRARY 'LIB$:MAILDEF';
 77        0221  1
 78        0222  1  OWN
 79        0223  1          COMMAND_DESC: DYN_DESC_DECL,
 80        0224  1          DYN_DESC: DYN_DESC_DECL,
 81        0225  1          DYN_DESC_2: DYN_DESC_DECL;
 82        0226  1
 83        0227  1  EXTERNAL
 84        0228  1          MAIL$T_RD_RAB : $BBLOCK,                !MAIL file RAB
 85        0229  1          MAIL$GL_FLAGS : $BBLOCK,                !Control flags
 86        0230  1          MAIL$SD_MAIL : $BBLOCK,                 !Descriptor of 'MAIL'
 87        0231  1          MAIL$SD_NEWMAIL : $BBLOCK,              ! and 'NEWMAIL'
 88        0232  1          MAIL$SD_SETF1: $BBLOCK,                 !Descriptor for set cmd prompt
 89        0233  1          MAIL$SD_SETN1: $BBLOCK,
 90        0234  1          MAIL$SD_USER: $BBLOCK,                  !Descriptor for USER
 91        0235  1          MAIL$Q_RD_DESC : $BBLOCK,               !Current mail file descriptor
 92        0236  1          MAIL$T_UAF_BUFF : REF $BBLOCK,          !UAF buffer
 93        0237  1          MAIL$Q_USERDEF : $BBLOCK,               !dev/dir for mail files
 94        0238  1          MAIL$Q_MAILDEF : $BBLOCK,               ! above + 'mail.mai'
 95        0239  1          MAIL$Q_WASTEDESC : $BBLOCK,             !Descriptor for waste folder
 96        0240  1          MAIL$Q_USERNAME: $BBLOCK,               !Descriptor for username
 97        0241  1          MAIL$Q_FULLUSER: $BBLOCK,               ! and for full name
 98        0242  1          MAIL$T_SYSMAIRAB: $BBLOCK,              !RAB for VMSMAIL.DAT
 99        0243  1          MAIL$L_MYUIC,                           !UIC of person running MAIL
100        0244  1          MAIL$L_USRSYSBUF: REF $BBLOCK,          !User's vmsmail record
101        0245  1          MAIL$L_SYSMAIBUF: REF $BBLOCK;          !Pointer to buffer
102        0246  1
103        0247  1  EXTERNAL ROUTINE
104        0248  1          CLI$GET_VALUE: ADDRESSING_MODE(GENERAL),!Get value from CLI
105        0249  1          CLI$PRESENT: ADDRESSING_MODE(GENERAL),  !Test qualifier present
106        0250  1          LIB$CREATE_DIR,                         !Create a directory
107        0251  1          LIB$RENAME_FILE,                        !Rename files
108        0252  1          MAIL$GETLK_SYSMAI_REC,                  !Read and lock VMSMAIL record
109        0253  1          MAIL$MOVE_WASTEBASKET,                  !Move contents of wastebasketa
110        0254  1          MAIL$OPEN_IF,                           !Open file if not open
111        0255  1          MAIL$UPCASE_Q,                          !Cvt to upper case, honor quotes
112        0256  1          MAIL$UPDATE_INFO_REC,                   !Update mail file info rec
113        0257  1          MAIL$UPDATE_SYSMAI_REC,                 !Update VMSMAIL record
114        0258  1          STR$APPEND,                             !Append a string
115        0259  1          STR$CONCAT: ADDRESSING_MODE(GENERAL),   !Concatenate strings
116        0260  1          STR$COPY_DX: ADDRESSING_MODE(GENERAL),  !Copy string
117        0261  1          STR$FREE1_DX: ADDRESSING_MODE(GENERAL), !Free dynamic string
118        0262  1          MAIL$GET_USER,                          !Get user uaf record
119        0263  1          MAIL$OPEN_FILE,                         !Open a mail file
120        0264  1          MAIL$FORW_PRIV_CHECK,                   !See if SYSNAM privilege
121        0265  1          UTIL$GETFILENAME,                       !Get file spec from FAB
122        0266  1          UTIL$REPORT_IO_ERROR;                   !Report I/O error
123        0267  1  !
124        0268  1  !  Declare names for string descriptors
125        0269  1  !
126        0270  1  GLOBAL BIND
127        0271  1          MAIL$Q_MAIL_MAI = $DESCRIPTOR('MAIL.MAI') : $BBLOCK;
```

```
   128      0272  1
   129    P 0273  1  SD(
   130    P 0274  1          'FILE',
   131    P 0275  1          'LOG',
   132    P 0276  1          'NOSEND',
   133    P 0277  1          'NOREPLY',
   134    P 0278  1          'SEND',
   135    P 0279  1          'REPLY',
   136      0280  1          'WASTENAME');
   137      0281  1  !
   138      0282  1  ! Define shared messages
   139      0283  1  !
   140    P 0284  1  $SHR_MSGDEF(MAIL,126,LOCAL,
   141    P 0285  1                  (DIRNOTCRE,ERROR),
   142    P 0286  1                  (EXISTS,INFO),
   143    P 0287  1                  (RENAMED,INFO),
   144    P 0288  1                  (CREATED,INFO),
   145    P 0289  1                  (PARSEFAIL,ERROR),
   146    P 0290  1                  (SEARCHFAIL,ERROR),
   147      0291  1                  (WRITEERR,WARNING));
   148      0292  1  LITERAL
   149      0293  1          PRO_SYS         = $BITPOSITION(XAB$V_SYS),
   150      0294  1          PRO_OWN         = $BITPOSITION(XAB$V_OWN);
   151      0295  1          PRO_GRP         = $BITPOSITION(XAB$V_GRP);
   152      0296  1          PRO_WLD         = $BITPOSITION(XAB$V_WLD);
   153      0297  1
   154      0298  1          DIR_PRO         =                              ! Directory file protection
   155      0299  1  (                                       XAB$M_NODEL) ^ PRO_SYS OR
   156      0300  1  (                                       XAB$M_NODEL) ^ PRO_OWN OR
   157      0301  1  (XAB$M_NOREAD OR XAB$M_NOWRITE OR XAB$M_NOEXE OR XAB$M_NODEL) ^ PRO_GRP OR
   158      0302  1  (XAB$M_NOREAD OR XAB$M_NOWRITE OR XAB$M_NOEXE OR XAB$M_NODEL) ^ PRO_WLD;
```

```
160   0303  1 GLOBAL ROUTINE MAIL$STRIP_QUOTES(OUT_DESC,IN_DESC) =
161   0304  1 !++
162   0305  1 ! FUNCTIONAL DESCRIPTION:
163   0306  1 !
164   0307  1 ! This routine strips double qoutes (if any) from the input string
165   0308  1 !
166   0309  1 ! INPUTS:
167   0310  1 !
168   0311  1 !       IN_DESC = address of string descriptor for input string
169   0312  1 !       OUT_DESC = address of string descriptor for output string
170   0313  1 !
171   0314  1 !--
172   0315  2 BEGIN
173   0316  2 MAP
174   0317  2     IN_DESC : REF $BBLOCK,
175   0318  2     OUT_DESC : REF $BBLOCK;
176   0319  2
177   0320  2 LOCAL
178   0321  2     DESC_1 : $BBLOCK[DSC$C_S_BLN],
179   0322  2     CHAR : BYTE;
180   0323  2
181   0324  2 LITERAL
182   0325  2     DOUBLE_QUOTE = %ASCII '"';
183   0326  2
184   0327  2 DESC_1[DSC$W_LENGTH] = .IN_DESC[DSC$W_LENGTH];
185   0328  2 DESC_1[DSC$B_CLASS] = 0;
186   0329  2 DESC_1[DSC$B_DTYPE] = 0;
187   0330  2 DESC_1[DSC$A_POINTER] = .IN_DESC[DSC$A_POINTER];
188   0331  2
189   0332  2 IF .DESC_1[DSC$W_LENGTH] GTRU 0
190   0333  3 THEN BEGIN
191   0334  3     CHAR = CH$RCHAR(.DESC_1[DSC$A_POINTER]);
192   0335  3     IF .DESC_1[DSC$W_LENGTH] GTR 1
193   0336  4         AND (.CHAR EQL DOUBLE_QUOTE)
194   0337  4         AND (.CHAR EQL CH$RCHAR(.DESC_1[DSC$A_POINTER]+
195   0338  4                             .DESC_1[DSC$W_LENGTH] - 1))
196   0339  4     THEN BEGIN
197   0340  4         DESC_1[DSC$W_LENGTH] = .DESC_1[DSC$W_LENGTH] - 2;
198   0341  4         DESC_1[DSC$A_POINTER] = .DESC_1[DSC$A_POINTER] + 1;
199   0342  3         END;
200   0343  2     END;
201   0344  2
202   0345  2 RETURN STR$COPY_DX(.OUT_DESC,DESC_1)
203   0346  1 END;
```

```
                                            .TITLE  MAIL$SET VAX/VMS MAIL UTILITY SET COMMAND
                                            .IDENT  \V04-000\

                                            .PSECT  $CODE$,NOWRT,2

       49 41 4D 2E 4C 49 41 4D  00000 P.AAB:  .ASCII  \MAIL.MAI\
                     00000008  00008 P.AAA:  .LONG   8
                     00000000' 0000C         .ADDRESS P.AAB
             45 4C 49 46  00010 P.AAD:  .ASCII  \FILE\
                     00000004  00014 P.AAC:  .LONG   4
                     00000000' 00018         .ADDRESS P.AAD
```

```
                                  D  9

                        47  4F  4C  0001C P.AAF:     .ASCII   \LOG\
                                    0001F            .BLKB    1
                        00000003    00020 P.AAE:     .LONG    3
                        00000000'   00024            .ADDRESS P.AAF
              44  4E  45  53  4F  4E  00028 P.AAH:   .ASCII   \NOSEND\
                                    0002E            .BLKB    2
                        00000006    00030 P.AAG:     .LONG    6
                        00000000'   00034            .ADDRESS P.AAH
              59  4C  50  45  52  4F  4E  00038 P.AAJ: .ASCII \NOREPLY\
                                    0003F            .BLKB    1
                        00000007    00040 P.AAI:     .LONG    7
                        00000000'   00044            .ADDRESS P.AAJ
                        44  4E  45  53  00048 P.AAL: .ASCII   \SEND\
                        00000004    0004C P.AAK:     .LONG    4
                        00000000'   00050            .ADDRESS P.AAL
                    59  4C  50  45  52  00054 P.AAN: .ASCII   \REPLY\
                                    00059            .BLKB    3
                        00000005    0005C P.AAM:     .LONG    5
                        00000000'   00060            .ADDRESS P.AAN
          45  4D  41  4E  45  54  53  41  57  00064 P.AAP: .ASCII \WASTENAME\
                                    0006D            .BLKB    3
                        00000009    00070 P.AAO:     .LONG    9
                        00000000'   00074            .ADDRESS P.AAP

                                                     .PSECT   $OWN$,NOEXE,2

                        00#  00000 COMMAND_DESC:
                                                     .BYTE    0[2]
                        02  0E  00002               .BYTE    14, 2
                                00004               .BLKB    4
                        00#  00008 DYN_DESC:
                                                     .BYTE    0[2]
                        02  0E  0000A               .BYTE    14, 2
                                0000C               .BLKB    4
                        00#  00010 DYN_DESC_2:
                                                     .BYTE    0[2]
                        02  0E  00012               .BYTE    14, 2
                                00014               .BLKB    4

                                   MAIL$Q_MAIL_MAI==     P.AAA
                                   SD_FILE=              P.AAC
                                   SD_LOG=               P.AAE
                                   SD_NOSEND=            P.AAG
                                   SD_NOREPLY=           P.AAI
                                   SD_SEND=              P.AAK
                                   SD_REPLY=             P.AAM
                                   SD_WASTENAME=         P.AAO
                                   .EXTRN   MAIL$T_RD_RAB, MAIL$GL_FLAGS
                                   .EXTRN   MAIL$SD_MAIL, MAIL$SD_NEWMAIL
                                   .EXTRN   MAIL$SD_SETF1, MAIL$SD_SETN1
                                   .EXTRN   MAIL$SD_USER, MAIL$Q_RD_DESC
                                   .EXTRN   MAIL$T_OAF_BUFF
                                   .EXTRN   MAIL$Q_USERDEF, MAIL$Q_MAILDEF
                                   .EXTRN   MAIL$Q_WASTEDESC
                                   .EXTRN   MAIL$Q_USERNAME
                                   .EXTRN   MAIL$Q_FULLUSER
                                   .EXTRN   MAIL$T_SYSMAIRAB
```

```
                                                              .EXTRN    MAIL$L_MYUIC, MAIL$L_USRSYSBUF
                                                              .EXTRN    MAIL$L_SYSMAIBUF
                                                              .EXTRN    CLI$GET_VALUE, CLI$PRESENT
                                                              .EXTRN    LIB$CREATE_DIR, LIB$RENAME_FILE
                                                              .EXTRN    MAIL$GETLK_SYSMAI_REC
                                                              .EXTRN    MAIL$MOVE_WASTEBASKET
                                                              .EXTRN    MAIL$OPEN_IF, MAIL$UPCASE_Q
                                                              .EXTRN    MAIL$UPDATE_INFO_REC
                                                              .EXTRN    MAIL$UPDATE_SYSMAI_REC
                                                              .EXTRN    STR$APPEND, STR$CONCAT
                                                              .EXTRN    STR$COPY_DX, STR$FREE1_DX
                                                              .EXTRN    MAIL$GET_USER, MAIL$OPEN_FILE
                                                              .EXTRN    MAIL$FORQ_PRIV_CHECK
                                                              .EXTRN    UTIL$GETFILENAME
                                                              .EXTRN    UTIL$REPORT_IO_ERROR

                                                              .PSECT    $CODE$,NOWRT,2

                              0000 00000                      .ENTRY    MAIL$STRIP_QUOTES, Save nothing        ; 0303
                    5E        04   C2 00002                   SUBL2     #4, SP                                 ; 0327
                    50   08   AC   D0 00005                   MOVL      IN_DESC, R0
                    7E        60   3C 00009                   MOVZWL    (R0), DESC_1
            04  AE  04   A0   D0 0000C                        MOVL      4(R0), DESC_1+4                         ; 0330
                    50        6E   3C 00011                   MOVZWL    DESC_1, R0                             ; 0332
                              1E   13 00014                   BEQL      1$
                    51   04   BE   90 00016                   MOVB      @DESC_1+4, CHAR                        ; 0334
                    01        50   B1 0001A                   CMPW      R0, #T                                 ; 0335
                              15   1B 0001D                   BLEQU     1$
                    22        51   91 0001F                   CMPB      CHAR, #34                              ; 0336
                              10   12 00022                   BNEQ      1$
                    50   04   AE   C0 00024                   ADDL2     DESC_1+4, R0                           ; 0338
            FF  A0  51   91 00028                             CMPB      CHAR, -1(R0)
                              06   12 0002C                   BNEQ      1$
                    6E        02   A2 0002E                   SUBW2     #2, DESC_1                             ; 0340
                    04   AE   D6 00031                         INCL     DESC_1+4                               ; 0341
                    5E   DD 00034 1$:                          PUSHL    SP                                     ; 0345
                    04   AC   DD 00036                         PUSHL    OUT_DESC
        00000000G  00   02   FB 00039                         CALLS    #2, STR$COPY_DX
                              04 00040                         RET                                             ; 0346
```

; Routine Size: 65 bytes,   Routine Base: $CODE$ + 0078

```
205   0347  1  ROUTINE CHECK_STRING(DESC,MAXLENGTH) =
206   0348  1  !++
207   0349  1  ! FUNCTIONAL DESCRIPTION:
208   0350  1  !
209   0351  1  !      Check a string for too long or illegal characters
210   0352  1  !
211   0353  1  ! INPUTS:
212   0354  1  !
213   0355  1  !      DESC = Addr of string descriptor for string
214   0356  1  !      MAXLENGTH = Max length allowable for string
215   0357  1  !
216   0358  1  ! ROUTINE VALUE:
217   0359  1  !
218   0360  1  !      true if all ok, else error
219   0361  1  !--
220   0362  2  BEGIN
221   0363  2
222   0364  2  MAP
223   0365  2      DESC : REF $BBLOCK;
224   0366  2
225   0367  2  LOCAL
226   0368  2      CHAR : BYTE,
227   0369  2      PTR;
228   0370  2
229   0371  2  !
230   0372  2  ! Check length of string
231   0373  2  !
232   0374  2  IF .DESC[DSC$W_LENGTH] GTRU .MAXLENGTH
233   0375  3  THEN BEGIN
234   0376  3      SIGNAL(MAIL$_NAMTOOBIG,1,.DESC);
235   0377  3      RETURN MAIL$_NAMTOOBIG
236   0378  3      END;
237   0379  2  !
238   0380  2  ! Check for characters with high bit on or illegal character (less than
239   0381  2  ! a space, and not a tab)
240   0382  2  !
241   0383  2  PTR = .DESC[DSC$A_POINTER];
242   0384  2  INCRU I FROM 1 TO .DESC[DSC$W_LENGTH]
243   0385  2  DO IF ((CHAR = CH$RCHAR_A(PTR)) AND %X'80') NEQ 0
244   0386  3      OR ((.CHAR LSSU %C'-') AND (.CHAR NEQ %C'    '))
245   0387  3  THEN BEGIN
246   0388  3      SIGNAL(MAIL$_ILLCHAR,3,.CHAR,.DESC[DSC$W_LENGTH],.DESC[DSC$A_POINTER]);
247   0389  3      RETURN MAIL$_ILLCHAR
248   0390  2      END;
249   0391  2
250   0392  2  RETURN TRUE
251   0393  1  END;
```

```
                              00FC 00000 CHECK_STRING:
                                                   .WORD    Save R2,R3,R4,R5,R6,R7       : 0347
                      57 00000000G  00 9E 00002     MOVAB    LIB$SIGNAL, R7
                      52        04  AC D0 00009     MOVL     DESC, R2                     : 0374
  08  AC        62    10            00 ED 0000D     CMPZV    #0, #16, (R2), MAXLENGTH
```

```
                              15   1B 00013        BLEQU    1$                          .  0376
                              52   DD 00015        PUSHL    R2                          .
                              01   DD 00017        PUSHL    #1                          .
                  007E8092    8F   DD 00019        PUSHL    #8290450                    .
                    67        03   FB 0001F        CALLS    #3, LIB$SIGNAL             .
                 50 007E8092  8F   D0 00022        MOVL     #8290450, R0                .  0377
                              04 00029             RET                                  .
                    56    04  A2   D0 0002A 1$:     MOVL     4(R2), PTR                 .  0383
                    54        62   3C 0002E        MOVZWL   (R2), R4                    .  0384
                    55        01   D0 00031        MOVL     #1, I                       .
                              2F   11 00034        BRB      5$                          .
                    50        86   9A 00036 2$:     MOVZBL   (PTR)+, R0                 .  0385
                    53        50   90 00039        MOVB     R0, CHAR                    .
                              0A   19 0003C        BLSS     3$                          .
                    20        53   91 0003E        CMPB     CHAR, #32                   .  0386
                              20   1E 00041        BGEQU    4$                          .
                    09        53   91 00043        CMPB     CHAR, #9                    .
                              1B   13 00046        BEQL     4$                          .
                          04  A2   DD 00048 3$:     PUSHL    4(R2)                      .  0388
                              54   DD 0004B        PUSHL    R4                          .
                    7E        53   9A 0004D        MOVZBL   CHAR, -(SP)                 .
                              03   DD 00050        PUSHL    #3                          .
                  007E809A    8F   DD 00052        PUSHL    #8290458                    .
                    67        05   FB 00058        CALLS    #5, LIB$SIGNAL             .
                 50 007E809A  8F   D0 0005B        MOVL     #8290458, R0                .  0389
                              04 00062             RET                                  .
                              55   D6 00063 4$:     INCL     I                          .  0385
                    54        55   D1 00065 5$:     CMPL     I, R4                      .
                              CC   1B 00068        BLEQU    2$                          .
                    50        01   D0 0006A        MOVL     #1, R0                      .  0392
                              04 0006D             RET                                  .  0393
```

; Routine Size: 110 bytes,   Routine Base: $CODE$ + 00B9

```
253    0394  1  GLOBAL ROUTINE MAIL$CMD_SET_FORWARD (DELETE_FLAG) =
254    0395  1  !++
255    0396  1  ! FUNCTIONAL DESCRIPTION:
256    0397  1  !
257    0398  1  !     This routine is called to modify the forwarding address of a user.
258    0399  1  !
259    0400  1  ! INPUTS:
260    0401  1  !
261    0402  1  !     DELETE_FLAG Present if SET NOFORWARD.  Parameter absent if SET FORWARD
262    0403  1  !     MAIL$Q_USERNAME Descriptor of username string
263    0404  1  !
264    0405  1  ! IMPLICIT INPUTS:
265    0406  1  !
266    0407  1  !     MAIL$T_SYSMAIRAB RAB for I/O on SYS$SYSTEM:VMSMAIL.DAT
267    0408  1  !
268    0409  1  ! OUTPUTS:
269    0410  1  !
270    0411  1  !     SYS$SYSTEM:VMSMAIL.DAT is created if it does not exist.  The user
271    0412  1  !     record is modified, or added if it does not exist.
272    0413  1  !
273    0414  1  !--
274    0415  2  BEGIN
275    0416  2
276    0417  2  BUILTIN
277    0418  2      NULLPARAMETER;
278    0419  2
279    0420  2  LOCAL
280    0421  2      NAMBUF : $BBLOCK[NAM$C_MAXRSS],
281    0422  2      DIRBUF : $BBLOCK[NAM$C_MAXRSS],
282    0423  2      TMPBUF : $BBLOCK[VMD_C_LENGTH + 3*NAM$C_MAXRSS],
283    0424  2      PTR,
284    0425  2      PROXY_FLAG,
285    0426  2      STATUS;
286    0427  2
287    0428  2  PROXY_FLAG = 0;                                  ! Assume for self
288    0429  2  IF NULLPARAMETER(1)
289    0430  3  THEN BEGIN
290    0431  3      CLI$GET_VALUE(MAIL$SD_SETF1,COMMAND_DESC);  !Get forwarding address
291    0432  3      MAIL$STRIP_QUOTES(COMMAND_DESC,COMMAND_DESC);
292    0433  3      MAIL$UPCASE_Q(COMMAND_DESC);
293    0434  3      END
294    0435  2  ELSE STR$FREE1_DX(COMMAND_DESC);                ! Ensure 0 forwarding address
295    0436  2
296  P 0437  2  IF_ERR(CHECK_STRING(COMMAND_DESC,NAM$C_MAXRSS);,
297    0438  2          RETURN .STATUS);
298    0439  2
299    0440  2  IF NOT CLI$PRESENT(MAIL$SD_USER)           ! If not /USER=, then do self
300    0441  2      THEN CH$MOVE(VMD_C_LENGTH+.MAIL$L_USRSYSBUF[VMD_B_FWDLNG]
301    0442  2                  +.MAIL$L_USRSYSBUF[VMD_B_FNMLNG]
302    0443  2                  +.MAIL$L_USRSYSBUF[VMD_B_DIRLNG],
303    0444  2                  .MAIL$L_USRSYSBUF,TMPBUF)
304    0445  3  ELSE BEGIN
305    0446  3      !
306    0447  3      ! Ensure user has SYSNAM in process privilege mask
307    0448  3      !
308    0449  3      IF NOT MAIL$FORW_PRIV_CHECK()
309    0450  3          THEN RETURN TRUE;
```

```
310   0451  3          PROXY_FLAG = CLI$GET_VALUE(MAIL$SD_USER,DYN_DESC);
311   0452  3          CH$COPY(.DYN_DESC[DSC$W_LENGTH],          ! Copy name from /USER=
312   0453  3              .DYN_DESC[DSC$A_POINTER],' ',
313   0454  3              VMD_C_USERNAME,TMPBUF[VMD_T_USERNAME]);
314   0455  3          MAIL$T_SYSMAIRAB[RAB$L_KBF] = TMPBUF;          ! Set to read the record
315   0456  3          MAIL$T_SYSMAIRAB[RAB$L_UBF] = TMPBUF;
316   0457  3          MAIL$T_SYSMAIRAB[RAB$V_NLK] = FALSE;
317   0458  3          IF NOT $GET(RAB=MAIL$T_SYSMAIRAB)              ! If it doesn't exist, zero record
318   0459  4          THEN CH$FILL(0,VMD_C_LENGTH+NAM$C_MAXRSS-$BYTEOFFSET(VMD_W_FLAGS),
319   0460  3                      TMPBUF[VMD_W_FLAGS]);
320   0461  3
321   0462  2          END;
322   0463  2      !
323   0464  2      ! If trying to forward to self, then set no forwarding
324   0465  2      !
325   0466  2      CH$MOVE(.TMPBUF[VMD_B_FNMLNG],                      !Save full user name
326   0467  2              TMPBUF[VMD_T_FWDNAM]+.TMPBUF[VMD_B_FWDLNG],NAMBUF);
327   0468  2      CH$MOVE(.TMPBUF[VMD_B_DIRLNG],                      !Save mail dir spec
328   0469  2              TMPBUF[VMD_T_FWDNAM]+.TMPBUF[VMD_B_FWDLNG]+.TMPBUF[VMD_B_FNMLNG],
329   0470  2              DIRBUF);
330   0471  2      IF NOT .PROXY_FLAG
331   0472  2          AND CH$EQL(VMD_C_USERNAME,TMPBUF[VMD_T_USERNAME],
332   0473  2          .COMMAND_DESC[DSC$W_LENGTH],.COMMAND_DESC[DSC$A_POINTER],' ')
333   0474  2          THEN TMPBUF[VMD_B_FWDLNG] = 0
334   0475  2          ELSE BEGIN
335   0476  3              CH$MOVE(.COMMAND_DESC[DSC$W_LENGTH],
336   0477  3                      .COMMAND_DESC[DSC$A_POINTER],
337   0478  3                      TMPBUF[VMD_T_FWDNAM]);
338   0479  3              TMPBUF[VMD_B_FWDLNG] = .COMMAND_DESC[DSC$W_LENGTH];
339   0480  3              END;
340   0481  2      PTR = CH$MOVE(.TMPBUF[VMD_B_FNMLNG],NAMBUF,        !Restore full user name
341   0482  2                   TMPBUF[VMD_T_FWDNAM]+.TMPBUF[VMD_B_FWDLNG]);
342   0483  2      CH$MOVE(.TMPBUF[VMD_B_DIRLNG],DIRBUF,.PTR);
343   0484  2      MAIL$UPDATE_SYSMAI_REC(TMPBUF);                    !Update the record
344   0485  2
345   0486  2      RETURN TRUE
346   0487  1      END;


                                                    .EXTRN   SYS$GET

                                    0FFC 00000      .ENTRY   MAIL$CMD_SET_FORWARD, Save R2,R3,R4,R5,R6,- : 0394
                                                             R7,R8,R9,R10,R11
                  5B  00000000G  00  9E 00002        MOVAB    MAIL$SD_USER, R11
                  5A  00000000G  00  9E 00009        MOVAB    CLI$GET_VALUE, R10
                  59  00000000G  00  9E 00010        MOVAB    MAIL$T_SYSMAIRAB+48, R9
                  58  00000000'  00  9E 00017        MOVAB    COMMAND_DESC, R8
                  5E      FABC   CE  9E 0001E        MOVAB    -1348(SP), SP
                              57  D4 00023           CLRL     PROXY_FLAG                             : 0428
                              6C  95 00025           TSTB     (AP)                                   : 0429
                              05  13 00027           BEQL     1$
                      04      AC  D5 00029           TSTL     4(AP)
                              1F  12 0002C           BNEQ     2$
                              58  DD 0002E 1$:       PUSHL    R8                                     : 0431
                  00000000G  00  9F 00030           PUSHAB   MAIL$SD_SETF1
                  6A      02  FB 00036              CALLS    #2, CLI$GET_VALUE
```

```
                                        58  DD 00039              PUSHL    R8                                          : 0432
                                        58  DD 0003B              PUSHL    R8
                            FF0F  CF     02  FB 0003D              CALLS    #2, MAIL$STRIP_QUOTES
                                        58  DD 00042              PUSHL    R8                                          : 0433
                   00000000G  00         01  FB 00044              CALLS    #1, MAIL$UPCASE_Q
                                        09  11 0004B              BRB      3$                                         : 0429
                                        58  DD 0004D  2$:          PUSHL    R8                                         : 0435
                   00000000G  00         01  FB 0004F              CALLS    #1, STR$FREE1_DX
                                  7E  FF 8F  9A 00056  3$:          MOVZBL   #255, -(SP)                                : 0438
                                        58  DD 0005A              PUSHL    R8
                            FF31  CF     02  FB 0005C              CALLS    #2, CHECK_STRING
                                        01  50  E8 00061              BLBS     STATUS, 4$
                                        04 00064              RET
                                        5B  DD 00065  4$:          PUSHL    R11                                        : 0440
                   00000000G  00         01  FB 00067              CALLS    #1, CLI$PRESENT
                                        21  50  E8 0006E              BLBS     R0, 5$
                                  50 00000000G  00  D0 00071              MOVL     MAIL$L_USRSYSBUF, R0              : 0441
                                  51      43  A0  9A 00078              MOVZBL   67(R0), R1                            : 0442
                                  52      42  A0  9A 0007C              MOVZBL   66(R0), R2
                                  51              52  C0 00080              ADDL2    R2, R1
                                  52      41  A0  9A 00083              MOVZBL   65(R0), R2                            : 0443
                                  51  44 A241  9E 00087              MOVAB    68(R2)[R1], R1
                            6E      60      51  28 0008C              MOVC3    R1, (R0), TMPBUF                       : 0441
                                        44  11 00090              BRB      7$
                   00000000G  00         00  FB 00092  5$:          CALLS    #0, MAIL$FORW_PRIV_CHECK               : 0449
                                        03  50  E8 00099              BLBS     R0, 6$
                                  00A1  31 0009C              BRW      10$
                            08  A8  9F 0009F  6$:          PUSHAB   DYN_DESC                              : 0452
                                        5B  DD 000A2              PUSHL    R11
                                  6A      02  FB 000A4              CALLS    #2, CLI$GET_VALUE
                                  57      50  D0 000A7              MOVL     R0, PROXY_FLAG
                                  50  0C  A8  D0 000AA              MOVL     DYN_DESC+4, R0                         : 0454
                            1F      20      60  08  A8  2C 000AE              MOVC5    DYN_DESC, (R0), #32, #31, TMPBUF  : 0455
                                        6E 000B4
                                        69 000B5              MOVAB    TMPBUF, MAIL$T_SYSMAIRAB+48            : 0456
                                  F4  A9  6E  9E 000B8              MOVAB    TMPBUF, MAIL$T_SYSMAIRAB+36            : 0457
                                  D6  A9  10  8A 000BC              BICB2    #16, MAIL$T_SYSMAIRAB+6               : 0458
                                  D0  A9  9F 000C0              PUSHAB   MAIL$T_SYSMAIRAB                        : 0459
                   00000000G  00         01  FB 000C3              CALLS    #1, SYS$GET
                                        09  50  E8 000CA              BLBS     R0, 7$
                   0124  8F              00  6E  00  2C 000CD              MOVC5    #0, (SP), #0, #292, TMPBUF+31         : 0461
                                        1F  AE 000D4
                                  50      42  AE  9A 000D6  7$:          MOVZBL   TMPBUF+66, R0                         : 0466
                                  56      43  AE  9A 000DA              MOVZBL   TMPBUF+67, R6                         : 0467
                            FF00  CD  44 AE46  50  28 000DE              MOVC3    R0, TMPBUF+68[R6], NAMBUF             : 0466
                                  51      41  AE  9A 000E6              MOVZBL   TMPBUF+65, R1                         : 0468
                                  50      42  AE  9A 000EA              MOVZBL   TMPBUF+66, R0                         : 0469
                                  50      56  C0 000EE              ADDL2    R6, R0
                            FE00  CD  44 AE40  51  28 000F1              MOVC3    R1, TMPBUF+68[R0], DIRBUF             : 0468
                                        57  E8 000F9              BLBS     PROXY_FLAG, 8$                         : 0471
                                  50  04  A8  D0 000FC              MOVL     COMMAND_DESC+4, R0                     : 0473
                            68      20      6E  1F  2D 00100              CMPC5    #31, TMPBUF, #32, COMMAND_DESC, (R0)  : 0472
                                        60 00105
                                        05  12 00106              BNEQ     8$
                                        43  AE  94 00108              CLRB     TMPBUF+67                             : 0474
                                        10  11 0010B              BRB      9$
                                  56      68  3C 0010D  8$:          MOVZWL   COMMAND_DESC, R6                       : 0476
```

```
                              50    04  A8  D0 00110          MOVL     COMMAND_DESC+4, R0          : 0477
        44    AE              60    56  28 00114          MOVC3    R6, (R0), TMPBUF+68        : 0478
                       43     AE    56  90 00119          MOVB     R6, TMPBUF+67              : 0479
                              51    42  AE  9A 0011D 9$:  MOVZBL   TMPBUF+66, R1             : 0481
                              50    43  AE  9A 00121      MOVZBL   TMPBUF+67, R0            : 0482
        44 AE40     FF00 CD         51  28 00125          MOVC3    R1, NAMBUF, TMPBUF+68[R0]
                              50    41  AE  9A 0012D      MOVZBL   TMPBUF+65, R0            : 0483
              63    FE00 CD         50  28 00131          MOVC3    R0, DIRBUF, (PTR)
                              5E        DD 00137          PUSHL    SP                       : 0484
        00000000G  00             01  FB 00139          CALLS    #1, MAIL$UPDATE_SYSMAI_REC
                              50    01  D0 00140 10$:    MOVL     #1, R0                   : 0486
                                   04 00143             RET                                : 0487
```

; Routine Size: 324 bytes, Routine Base: $CODE$ + 0127

```
;  348        0488  1 GLOBAL ROUTINE MAIL$CMD_SET_NOFORWARD =
;  349        0489  1 !++
;  350        0490  1 ! FUNCTIONAL DESCRIPTION:
;  351        0491  1 !
;  352        0492  1 !    This routine is called to turn off forwarding for a user
;  353        0493  1 !
;  354        0494  1 !--
;  355        0495  1
;  356        0496  1 RETURN MAIL$CMD_SET_FORWARD(1);
```

```
                                    0000 00000          .ENTRY   MAIL$CMD_SET_NOFORWARD, Save nothing      ; 0488
                                 01  DD 00002          PUSHL   #1                                          ; 0496
                      FEB3   CF  01  FB 00004          CALLS   #1, MAIL$CMD_SET_FORWARD
                                    04 00009          RET
```

; Routine Size: 10 bytes,   Routine Base: $CODE$ + 026B

```
358   0497   1   GLOBAL ROUTINE MAIL$CMD_SET_SELF =
359   0498   1   !++
360   0499   1   ! FUNCTIONAL DESCRIPTION:
361   0500   1   !
362   0501   1   !       Process the SET COPY_SELF command, which sets the commands on
363   0502   1   !       which an automatic copy is sent to the sender.
364   0503   1   !
365   0504   1   !--
366   0505   2   BEGIN
367   0506   2   LOCAL
368   0507   2       DESC : VECTOR[2,LONG],
369   0508   2       STATUS;
370   0509   2
371   0510   2
372   0511   2   IF MAIL$GETLK_SYSMAI_REC(MAIL$Q_USERNAME,DESC)
373   0512   2       THEN CH$MOVE(.DESC[0],.DESC[1],.MAIL$L_USRSYSBUF);
374   0513   2
375   0514   2   IF CLI$PRESENT(SD_SEND)
376   0515   2       THEN MAIL$L_USRSYSBUF[VMD_V_SELFSEND] = 1
377   0516   2       ELSE IF CLI$PRESENT(SD_NOSEND)
378   0517   2           THEN MAIL$L_USRSYSBUF[VMD_V_SELFSEND] = 0;
379   0518   2   IF CLI$PRESENT(SD_REPLY)
380   0519   2       THEN MAIL$L_USRSYSBUF[VMD_V_SELFREPLY] = 1
381   0520   2       ELSE IF CLI$PRESENT(SD_NOREPLY)
382   0521   2           THEN MAIL$L_USRSYSBUF[VMD_V_SELFREPLY] = 0;
383   0522   2
384   0523   2   RETURN MAIL$UPDATE_SYSMAI_REC(.MAIL$L_USRSYSBUF)
385   0524   1   END;
```

```
                        01FC 00000          .ENTRY  MAIL$CMD_SET_SELF, Save R2,R3,R4,R5,R6,R7,- ; 0497
                                                    R8
        58  00000000G  00  9E 00002          MOVAB   CLI$PRESENT, R8
        57     FDCA    CF  9E 00009          MOVAB   SD_SEND, R7
        56  00000000G  00  9E 0000E          MOVAB   MAIL$L_USRSYSBUF, R6
        5E              08  C2 00015          SUBL2   #8, SP
                        5E  DD 00018          PUSHL   SP                                         ; 0511
            00000000G  00  9F 0001A          PUSHAB  MAIL$Q_USERNAME
   00000000G  00        02  FB 00020          CALLS   #2, MAIL$GETLK_SYSMAI_REC
               08        50  E9 00027          BLBC    R0, 1$
               50        66  D0 0002A          MOVL    MAIL$L_USRSYSBUF, R0                       ; 0512
     60     04  BE       6E  28 0002D          MOVC3   DESC, @DESC+4, (R0)
               57        DD 00032 1$:          PUSHL   R7                                         ; 0514
               68        01  FB 00034          CALLS   #1, CLI$PRESENT
               09        50  E9 00037          BLBC    R0, 2$
               50        66  D0 0003A          MOVL    MAIL$L_USRSYSBUF, R0                       ; 0515
        1F  A0           01  88 0003D          BISB2   #1, 31(R0)
               10        11 00041          BRB     3$
            E4  A7        9F 00043 2$:          PUSHAB  SD_NOSEND                                  ; 0516
               68        01  FB 00046          CALLS   #1, CLI$PRESENT
               07        50  E9 00049          BLBC    R0, 3$
               50        66  D0 0004C          MOVL    MAIL$L_USRSYSBUF, R0                       ; 0517
        1F  A0           01  8A 0004F          BICB2   #1, 31(R0)
               10  A7     9F 00053 3$:          PUSHAB  SD_REPLY                                   ; 0518
```

```
                                68          01 FB 00056              CALLS   #1, CLI$PRESENT
                                09          50 E9 00059              BLBC    R0, 4$
                                50          66 D0 0005C              MOVL    MAIL$L_USRSYSBUF, R0                    ; 0519
                        1F      A0          02 88 0005F              BISB2   #2, 31(R0)
                                10          10 11 00063              BRB     5$
                                       F4   A7 9F 00065 4$:          PUSHAB  SD_NOREPLY                             ; 0520
                                68          01 FB 00068              CALLS   #1, CLI$PRESENT
                                07          50 E9 0006B              BLBC    R0, 5$
                                50          66 D0 0006E              MOVL    MAIL$L_USRSYSBUF, R0                   ; 0521
                        1F      A0          02 8A 00071              BICB2   #2, 31(R0)
                                66          66 DD 00075 5$:          PUSHL   MAIL$L_USRSYSBUF                       ; 0523
              00000000G         00          01 FB 00077              CALLS   #1, MAIL$UPDATE_SYSMAI_REC
                                            04 0007E                 RET                                           ; 0524
```

; Routine Size: 127 bytes,   Routine Base: $CODE$ + 0275

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

B 10
16-Sep-1984 01:20:06   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:42:32   DISK$VMSMASTER:[MAIL.SRC]SET.B32;1

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```
387   0525  1  GLOBAL ROUTINE MAIL$SET_NAME (FULL_DESC) =
388   0526  1  !++
389   0527  1  ! FUNCTIONAL DESCRIPTION:
390   0528  1  !
391   0529  1  !       This routine updates the string MAIL$Q_FULLUSER with the username
392   0530  1  !       from MAIL$Q_USERNAME and the full name passed in FULL_DESC
393   0531  1  !
394   0532  1  ! INPUTS:
395   0533  1  !
396   0534  1  !       FULL_DESC = address of descriptor of full name (without quotes)
397   0535  1  !
398   0536  1  ! OUTPUTS:
399   0537  1  !
400   0538  1  !       MAIL$Q_FULLUSER updated
401   0539  1  !--
402   0540  2  BEGIN
403   0541  2
404   0542  2  MAP
405   0543  2        FULL_DESC : REF $BBLOCK;
406   0544  2
407   0545  2  BIND
408   0546  2        SPACE_DESC = $DESCRIPTOR(' ');
409   0547  2        QUOTE_DESC = $DESCRIPTOR('"');
410   0548  2
411   0549  2  IF .FULL_DESC[DSC$W_LENGTH] NEQ 0
412   0550  2      THEN RETURN STR$CONCAT(MAIL$Q_FULLUSER,MAIL$Q_USERNAME,
413   0551  2                     SPACE_DESC,QUOTE_DESC,.FULL_DESC,QUOTE_DESC)
414   0552  2      ELSE RETURN STR$COPY_DX(MAIL$Q_FULLUSER,MAIL$Q_USERNAME)
415   0553  1  END;


                         20  002F4 P.AAR:  .ASCII  \ \
                             002F5         .BLKB   3
                   00000001  002F8 P.AAQ:  .LONG   1
                   00000000' 002FC         .ADDRESS P.AAR
                         22  00300 P.AAT:  .ASCII  \"\
                             00301         .BLKB   3
                   00000001  00304 P.AAS:  .LONG   1
                   00000000' 00308         .ADDRESS P.AAT

                           SPACE_DESC=          P.AAQ
                           QUOTE_DESC=          P.AAS


                     001C 00000        .ENTRY  MAIL$SET_NAME, Save R2,R3,R4
      54 00000000G 00 9E 00002        MOVAB   MAIL$Q_FULLUSER, R4
      53 00000000G 00 9E 00009        MOVAB   MAIL$Q_USERNAME, R3
      52       E5 AF 9E 00010        MOVAB   QUOTE_DESC, R2
               04 BC B5 00014        TSTW    @FULL_DESC
               16 13 00017        BEQL    1$
               52 DD 00019        PUSHL   R2
            04 AC DD 0001B        PUSHL   FULL_DESC
               52 DD 0001E        PUSHL   R2
            F4 A2 9F 00020        PUSHAB  SPACE_DESC
               53 DD 00023        PUSHL   R3
               54 DD 00025        PUSHL   R4
```

; 0525

; 0549

; 0550
; 0551
; 0550

```
                    00000000G  00          06 FB 00027          CALLS   #6, STR$CONCAT
                                           04 0002E             RET                              : 0552
                                           53 DD 0002F 1$:      PUSHL   R3
                                           54 DD 00031          PUSHL   R4
                    00000000G  00          02 FB 00033          CALLS   #2, STR$COPY_DX
                                           04 0003A             RET                              : 0553
```

; Routine Size: 59 bytes,   Routine Base: $CODE$ + 030C

```
:   417        0554   1 ROUTINE ALPHA_CHAR (CHAR) =
:   418        0555   1 !++
:   419        0556   1 !  FUNCTIONAL DESCRIPTION:
:   420        0557   1 !
:   421        0558   1 !      Tests the character.  Returns true if A-Z or a-z, or $ or _, else error
:   422        0559   1 !--
:   423        0560   2 BEGIN
:   424        0561   2 MAP
:   425        0562   2     CHAR : BYTE;
:   426        0563   2
:   427        0564   3 IF ((.CHAR GEQU %C'A') AND (.CHAR LEQU %C'Z'))
:   428        0565   3     OR ((.CHAR GEQU %C'a') AND (.CHAR LEQU %C'z'))
:   429        0566   3     OR (.CHAR EQL %C'$') OR (.CHAR EQL %C'_')
:   430        0567   2     THEN RETURN TRUE
:   431        0568   2     ELSE RETURN FALSE
:   432        0569   1 END;
```

```
                                    0000 00000 ALPHA_CHAR:
                                                        .WORD   Save nothing              : 0554
                             50     04   AC  9A 00002    MOVZBL  CHAR, R0                  : 0564
                   41  8F              50  91 00006      CMPB    R0, #65
                                      06  1F 0000A       BLSSU   1$
                   5A  8F              50  91 0000C      CMPB    R0, #90
                                      17  1B 00010       BLEQU   3$
                   61  8F              50  91 00012 1$:  CMPB    R0, #97                   : 0565
                                      06  1F 00016       BLSSU   2$
                   7A  8F              50  91 00018      CMPB    R0, #122
                                      0B  1B 0001C       BLEQU   3$
                             24       50  91 0001E 2$:  CMPB    R0, #36                   : 0566
                                      06  13 00021       BEQL    3$
                   5F  8F              50  91 00023      CMPB    R0, #95
                                      04  12 00027       BNEQ    4$
                             50       01  D0 00029 3$:  MOVL    #1, R0                    : 0568
                                      04 0002C           RET
                             50       D4 0002D 4$:       CLRL    R0
                                      04 0002F           RET                              : 0569
```

; Routine Size: 48 bytes,   Routine Base: $CODE$ + 0347

```
:  434    0570  1  ROUTINE SET_NAME (NAME_DESC) =
:: 435    0571  1  !++
.: 436    0572  1  | FUNCTIONAL DESCRIPTION:
:  437    0573  1  |
:  438    0574  1  |      Set the full username for the SET PERSONAL_NAME command
:  439    0575  1  |
:  440    0576  1  !--
:  441    0577  2  BEGIN
:  442    0578  2
:  443    0579  2  MAP
:  444    0580  2      NAME_DESC : REF $BBLOCK;
:  445    0581  2
:  446    0582  2  LOCAL
:  447    0583  2      DESC : VECTOR[2,LONG],
:  448    0584  2      DIRBUF : $BBLOCK[NAM$C_MAXRSS],
:  449    0585  2      TMPBUF : $BBLOCK[VMD_C_LENGTH + 3*NAM$C_MAXRSS],
:  450    0586  2      PTR : REF VECTOR[,BYTE],
:  451    0587  2      STATUS;
:  452    0588  2
:  453    0589  2  MAIL$STRIP_QUOTES(.NAME_DESC,.NAME_DESC);
:  454    0590  2
:  455  P 0591  2  IF_ERR(CHECK_STRING(.NAME_DESC,127);,
:  456    0592  2          RETURN .STATUS);
:  457    0593  2
:  458    0594  2  IF .NAME_DESC[DSC$W_LENGTH] GTRU 0
:  459    0595  2  THEN BEGIN
:  460    0596  3      PTR = .NAME_DESC[DSC$A_POINTER];
:  461    0597  3      IF NOT ALPHA_CHAR(.PTR[0])
:  462    0598  3          OR NOT CH$FAIL(CH$FIND_SUB(.NAME_DESC[DSC$W_LENGTH],
:  463    0599  3                          .NAME_DESC[DSC$A_POINTER],2,UPLIT(' ')))
:  464    0600  3          THEN RETURN SIGNAL(MAIL$_ILLPERNAM,1,.NAME_DESC);
:  465    0601  2      END;
:  466    0602  2  MAIL$SET_NAME(.NAME_DESC);                     ! Set new full name
:  467    0603  2
:  468    0604  2  MAIL$GETLK_SYSMAI_REC(MAIL$Q_USERNAME,DESC);
:  469    0605  2  CH$MOVE(.DESC[0],.DESC[1],.MAIL$L_USRSYSBUF);
:  470    0606  2  CH$MOVE(.MAIL$L_USRSYSBUF[VMD_B_DIRLNG],
:  471    0607  2          MAIL$L_USRSYSBUF[VMD_T_FWDNAM]+.MAIL$L_USRSYSBUF[VMD_B_FWDLNG]+
:  472    0608  2          .MAIL$L_USRSYSBUF[VMD_B_FNMLNG],DIRBUF);
:  473    0609  2  PTR = MAIL$L_USRSYSBUF[VMD_T_FWDNAM] + .MAIL$L_USRSYSBUF[VMD_B_FWDLNG];
:  474    0610  2  MAIL$L_USRSYSBUF[VMD_B_FNMLNG] = .NAME_DESC[DSC$W_LENGTH];
:  475    0611  2  PTR = CH$MOVE(.NAME_DESC[DSC$W_LENGTH],.NAME_DESC[DSC$A_POINTER],PTR[0]);
:  476    0612  2  CH$MOVE(.MAIL$L_USRSYSBUF[VMD_B_DIRLNG],DIRBUF,PTR[0]);
:  477    0613  2
:: 478    0614  2  RETURN MAIL$UPDATE_SYSMAI_REC(.MAIL$L_USRSYSBUF)
:  479    0615  1  END;



                                          00377            .BLKB   1
                             00 00 20 20  00378 P.AAU:    .ASCII  \ \<0><0>                                              :


                                          07FC 00000 SET_NAME:
                                                              .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10                  : 0570
                             5A   FCF6  CF 9E C0002          MOVAB   MAIL$STRIP_QUOTES, R10                              :
```

```
                              5E    FBB4   CE  9E  00007        MOVAB    -1100(SP), SP
                              58          04  AC  D0  0000C     MOVL     NAME_DESC, R8
                                          58  DD  00010         PUSHL    R8                                           : 0589
                                          58  DD  00012         PUSHL    R8
                              6A              02  FB  00014     CALLS    #2, MAIL$STRIP_QUOTES
                              7E          7F  8F  9A  00017     MOVZBL   #127, -(SP)                                  : 0592
                                          58  DD  0001B         PUSHL    R8
                              41    AA        02  FB  0001D     CALLS    #2, CHECK_STRING
                              01              50  E8  00021     BLBS     STATUS, 1$
                                              04  00024         RET
                                          68  B5  00025  1$:    TSTW     (R8)                                         : 0594
                                          32  13  00027         BEQL     4$
                              59    04    A8  D0  00029         MOVL     4(R8), PTR                                   : 0596
                              7E          69  9A  0002D         MOVZBL   (PTR), -(SP)                                 : 0597
                        02CF  CA          01  FB  00030         CALLS    #1, ALPHA_CHAR
                                          11  50  E9  00035     BLBC     R0, 3$
      04  B8              68   CO    AF   02  39  00038         MATCHC   #2, P.AAU, (R8), a4(R8)                       : 0599
                                          03  13  0003F         BEQL     2$
                              53              02  D0  00041     MOVL     #2, R3
                              53              02  C2  00044  2$: SUBL2    #2, R3
                                          12  13  00047         BEQL     4$
                                          58  DD  00049  3$:    PUSHL    R8                                           : 0600
                                          01  DD  0004B         PUSHL    #1
                        007E80FA  8F  DD  0004D             PUSHL    #8290554
              00000000G  00      03  FB  00053             CALLS    #3, LIB$SIGNAL
                                          04  0005A         RET
                                          58  DD  0005B  4$:   PUSHL    R8                                           : 0602
                        0294  CA          01  FB  0005D         CALLS    #1, MAIL$SET_NAME
                              F8   AD  9F  00062             PUSHAB   DESC                                            : 0604
                        00000000G  00  9F  00065             PUSHAB   MAIL$Q_USERNAME
              00000000G  00      02  FB  0006B             CALLS    #2, MAIL$GETLK_SYSMAI_REC
                              56  00000000G  00  D0  00072  MOVL  MAIL$L_USRSYSBUF, R6                                : 0605
                    66   FC   BD      F8  AD  28  00079     MOVC3    DESC, aDESC+4, (R6)
                                     51  41  A6  9A  0007F     MOVZBL   65(R6), R1                                   : 0606
                                     50  43  A6  9A  00083     MOVZBL   67(R6), R0                                   : 0607
                    57               56  50  C1  00087         ADDL3    R0, R6, R7
                                     50  42  A6  9A  0008B     MOVZBL   66(R6), R0                                   : 0608
              FEF8  CD     44  A047  51  28  0008F         MOVC3    R1, 68(R0)[R7], DIRBUF                           : 0606
                              59   44  A7  9E  00097         MOVAB    68(R7), PTR                                    : 0609
                              42   A6  68  90  0009B         MOVB     (R8), 66(R6)                                   : 0610
                    69    04   B8  68  28  0009F         MOVC3    (R8), a4(R8), (PTR)                                : 0611
                              59      53  D0  000A4         MOVL     R3, PTR
                              50  41  A6  9A  000A7     MOVZBL   65(R6), R0                                           : 0612
                    69    FEF8  CD  50  28  000AB         MOVC3    R0, DIRBUF, (PTR)
                                     56  DD  000B1         PUSHL    R6                                                : 0614
              00000000G  00      01  FB  000B3             CALLS    #1, MAIL$UPDATE_SYSMAI_REC
                                          04  000BA         RET                                                     : 0615
```

; Routine Size: 187 bytes,   Routine Base: $CODE$ + 037C

```
 481    0616  1 GLOBAL ROUTINE MAIL$CMD_SET_NAME =
 482    0617  1 !++
 483    0618  1 ! FUNCTIONAL DESCRIPTION:
 484    0619  1 !
 485    0620  1 !        Process the SET PERSONAL_NAME command
 486    0621  1 !--
 487    0622  2 BEGIN
 488    0623  2
 489    0624  2 CLI$GET_VALUE(MAIL$SD_SETN1,COMMAND_DESC);!Get full username
 490    0625  2 IF .COMMAND_DESC[DSC$Q_LENGTH] EQL 0
 491    0626  2     THEN RETURN TRUE;
 492    0627  2
 493    0628  2 RETURN SET_NAME(COMMAND_DESC)
 494    0629  1 END;
```

```
                                      0004 00000           .ENTRY  MAIL$CMD_SET_NAME, Save R2           ; 0616
                     52 00000000'  00  9E 00002           MOVAB   COMMAND_DESC, R2
                                   52  DD 00009           PUSHL   R2                                   ; 0624
                        00000000G  00  9F 0000B           PUSHAB  MAIL$SD_SETN1
             00000000G  00             02  FB 00011       CALLS   #2, CLI$GET_VALUE
                                   62  B5 00018           TSTW    COMMAND_DESC                         ; 0625
                                   04  12 0001A           BNEQ    1$
                     50            01  D0 0001C           MOVL    #1, R0                               ; 0626
                                   04 0001F               RET
                                   52  DD 00020 1$:       PUSHL   R2                                   ; 0628
              FF1E  CF             01  FB 00022           CALLS   #1, SET_NAME
                                   04 00027               RET                                         ; 0629
```

; Routine Size: 40 bytes,   Routine Base: $CODE$ + 0437

```
  496      0630  1 GLOBAL ROUTINE MAIL$CMD_CLEAR_NAME =
  497      0631  1 !++
  498      0632  1 ! FUNCTIONAL DESCRIPTION:
  499      0633  1 !
  500      0634  1 !     Process the SET NOPERSONAL_NAME command (clear the personal name)
  501      0635  1 !
  502      0636  1 !--
  503      0637  2 BEGIN
  504      0638  2
  505      0639  2 LOCAL
  506      0640  2     DESC : VECTOR[2,LONG];
  507      0641  2
  508      0642  2 DESC[0] = 0;
  509      0643  2 DESC[1] = DESC[0];                     !Point to valid address
  510      0644  2 RETURN SET_NAME(DESC)
  511      0645  1 END;
```

```
                          0000 00000      .ENTRY   MAIL$CMD_CLEAR_NAME, Save nothing       ; 0630
            5E         04  C2 00002      SUBL2    #4, SP
                       7E  D4 00005      CLRL     DESC                                     ; 0642
       04   AE         6E  9E 00007      MOVAB    DESC, DESC+4                             ; 0643
                       5E  DD 0000B      PUSHL    SP                                       ; 0644
       FF0B CF         01  FB 0000D      CALLS    #1, SET_NAME
                           04 00012      RET                                              ; 0645
```

; Routine Size: 19 bytes,   Routine Base: $CODE$ + 045F

```
  513      0646  1 GLOBAL ROUTINE MAIL$CMD_SET_AUTO =
  514      0647  1 !++
  515      0648  1 ! FUNCTIONAL DESCRIPTION:
  516      0649  1 !
  517      0650  1 !     Do the SET AUTO_PURGE command
  518      0651  1 !--
  519      0652  2 BEGIN
  520      0653  2
  521      0654  2 LOCAL
  522      0655  2     DESC : VECTOR[2,LONG];
  523      0656  2
  524    P 0657  2 IF_ERR(MAIL$GETLK_SYSMAI_REC(MAIL$Q_USERNAME,DESC);,
  525      0658  2           RETURN TRUE);
  526      0659  2 CH$MOVE(.DESC[0],.DESC[1],.MAIL$L_USRSYSBUF);
  527      0660  2 MAIL$L_USRSYSBUF[VMD_V_NOAUTOPURGE] = 0;
  528      0661  2 RETURN MAIL$UPDATE_SYSMAI_REC(.MAIL$L_USRSYSBUF)
  529      0662  1 END;
```

```
                                    007C 00000      .ENTRY   MAIL$CMD_SET_AUTO, Save R2,R3,R4,R5,R6    ; 0646
                      5E          08 C2 00002      SUBL2    #8, SP
                      5E          5E DD 00005      PUSHL    SP                                        ; 0658
              00000000G          00 9F 00007      PUSHAB   MAIL$Q_USERNAME
   00000000G          00          02 FB 0000D      CALLS    #2, MAIL$GETLK_SYSMAI_REC
                      04          50 E8 00014      BLBS     STATUS, 1$
                      50          01 D0 00017      MOVL     #1, R0
                                  04 0001A         RET
                      56 00000000G 00 D0 0001B 1$: MOVL     MAIL$L_USRSYSBUF, R6                      ; 0659
        66      04    BE          6E 28 00022      MOVC3    DESC, @DESC+4, (R6)
                1F    A6          04 8A 00027      BICB2    #4, 31(R6)                               ; 0660
                                  56 DD 0002B      PUSHL    R6                                        ; 0661
   00000000G          00          01 FB 0002D      CALLS    #1, MAIL$UPDATE_SYSMAI_REC
                                  04 00034         RET                                              ; 0662
```

; Routine Size: 53 bytes,   Routine Base: $CODE$ + 0472

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

J 10
16-Sep-1984 01:20:06
14-Sep-1984 12:42:32

VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]SET.B32;1

Page 25
(14)

```
;    531      0663  1  GLOBAL ROUTINE MAIL$CMD_SET_NOAUTO =
;    532      0664  1  !++
;    533      0665  1  !  FUNCTIONAL DESCRIPTION:
;    534      0666  1  !
;    535      0667  1  !        Do the SET AUTO_PURGE command
;    536      0668  1  !--
;    537      0669  2  BEGIN
;    538      0670  2  LOCAL
;    539      0671  2      DESC : VECTOR[2,LONG];
;    540      0672  2
;    541    P 0673  2  IF_ERR(MAIL$GETLK_SYSMAI_REC(MAIL$Q_USERNAME,DESC);,
;    542      0674  2           RETURN TRUE);
;    543      0675  2  CH$MOVE(.DESC[0],.DESC[1],.MAIL$L_USRSYSBUF);
;    544      0676  2
;    545      0677  2  MAIL$L_USRSYSBUF[VMD_V_NOAUTOPURGE] = 1;
;    546      0678  2
;    547      0679  2  RETURN MAIL$UPDATE_SYSMAI_REC(.MAIL$L_USRSYSBUF)
;    548      0680  1  END;
```

```
                                         007C 00000         .ENTRY  MAIL$CMD_SET_NOAUTO, Save R2,R3,R4,R5,R6  ; 0663
                           5E         08 C2 00002         SUBL2   #8, SP
                           5E         5E DD 00005         PUSHL   SP                                        ; 0674
                  00000000G 00         9F 00007         PUSHAB  MAIL$Q_USERNAME
         00000000G 00                 02 FB 0000D         CALLS   #2, MAIL$GETLK_SYSMAI_REC
                           04         50 E8 00014         BLBS    STATUS, 1$
                           50         01 D0 00017         MOVL    #1, R0
                                         04 0001A         RET
                  56 00000000G 00         DO 0001B  1$:    MOVL    MAIL$L_USRSYSBUF, R6                      ; 0675
            66         04 BE         6E 28 00022         MOVC3   DESC, @DESC+4, (R6)
                 1F A6                04 88 00027         BISB2   #4, 31(R6)                               ; 0677
                           56         56 DD 0002B         PUSHL   R6                                        ; 0679
         00000000G 00                 01 FB 0002D         CALLS   #1, MAIL$UPDATE_SYSMAI_REC
                                         04 00034         RET                                              ; 0680
```

; Routine Size: 53 bytes,   Routine Base: $CODE$ + 04A7

MAIL$SET
V04-000
VAX/VMS MAIL UTILITY SET COMMAND
K 10
16-Sep-1984 01:20:06   VAX-11 Bliss-32 V4.0-742   Page 26
14-Sep-1984 12:42:32   DISK$VMSMASTER:[MAIL.SRC]SET.B32;1   (15)

```
550    0681   1 GLOBAL ROUTINE MAIL$CMD_SET_WASTE =
551    0682   1 !++
552    0683   1 ! FUNCTIONAL DESCRIPTION:
553    0684   1 !
554    0685   1 !     Process the SET WASTEBASKET_FOLDER command
555    0686   1 !--
556    0687   2 BEGIN
557    0688   2
558    0689   2 LOCAL
559    0690   2     RECDESC : VECTOR[2,LONG],
560    0691   2     RECBUF : $BBLOCK[$BYTEOFFSET(MFR_T_DATA)+MFR_S_FILEKEY+1];
561    0692   2
562    0693   2 BIND
563    0694   2     RECORD_TYPE = RECBUF[MFR_Q_DATIM] : VECTOR[,LONG],
564    0695   2     WASTENAME = RECBUF[MFR_T_DATA] : VECTOR[,BYTE];
565    0696   2
566    0697   2 CLI$GET_VALUE(SD_WASTENAME,COMMAND_DESC);
567    0698   2 IF .COMMAND_DESC[DSC$W_LENGTH] EQL 0
568    0699   2     THEN RETURN TRUE;
569    0700   2
570  P 0701   2 IF_ERR(MAIL$OPEN_IF();,
571    0702   2         RETURN TRUE);
572    0703   2
573    0704   2 IF NOT .MAIL$GL_FLAGS[MAIF_V_ISAM]
574    0705   2     THEN RETURN SIGNAL(MAI[$_NOTISAM);
575    0706   2
576    0707   2 IF CH$EQL(.COMMAND_DESC[DSC$W_LENGTH],.COMMAND_DESC[DSC$A_POINTER],
577    0708   2             .MAIL$SD_MAIL[DSC$W_LENGTH],.MAIL$SD_MAIL[DSC$A_POINTER])
578    0709   2     OR CH$EQL(.COMMAND_DESC[DSC$W_LENGTH],.COMMAND_DESC[DSC$A_POINTER],
579    0710   2             .MAIL$SD_NEWMAIL[DSC$W_LENGTH],.MAIL$SD_NEWMAIL[DSC$A_POINTER])
580    0711   2     THEN RETURN SIGNAL(MAIL$_ILLFOLNAM,1,COMMAND_DESC);
581    0712   2
582    0713   2 CH$FILL(0,$BYTEOFFSET(MFR_T_DATA),RECBUF);
583    0714   2 RECORD_TYPE[0] = MFR_C_WASTENAME;
584    0715   2 WASTENAME[0] = .COMMAND_DESC[DSC$W_LENGTH];
585    0716   2 CH$MOVE(.COMMAND_DESC[DSC$W_LENGTH],.COMMAND_DESC[DSC$A_POINTER],
586    0717   2             WASTENAME[1]);
587    0718   2
588    0719   2 RECDESC[0] = $BYTEOFFSET(MFR_T_DATA) + .COMMAND_DESC[DSC$W_LENGTH] + 1;
589    0720   2 RECDESC[1] = RECBUF;
590    0721   2 IF MAIL$UPDATE_INFO_REC(MAIL$T_RD_RAB,RECDESC)
591    0722   3 THEN BEGIN
592    0723   3     !
593    0724   3     ! Copy anything in old wastebasket folder to new wastebasket folder
594    0725   3     !
595    0726   3     MAIL$MOVE_WASTEBASKET(COMMAND_DESC);
596    0727   3     STR$COPY_DX(MAIL$Q_WASTEDESC,COMMAND_DESC);
597    0728   2     END;
598    0729   2 RETURN TRUE
599    0730   1 END;
```

```
                    01FC 00000          .ENTRY  MAIL$CMD_SET_WASTE, Save R2,R3,R4,R5,R6,R7,-: 0681
                                                R8
```

```
                                    58 00000000G   00  9E 00002           MOVAB    LIB$SIGNAL, R8
                                    57 00000000'   00  9E 00009           MOVAB    COMMAND_DESC, R7
                                    5E        A0   AE  9E 00010           MOVAB    -96(SP), SP
                                              57   DD 00014              PUSHL    R7
                                            FB7A   CF  9F 00016           PUSHAB   SD_WASTENAME
                       00000000G  00           02  FB 0001A              CALLS    #2, CLI$GET_VALUE
                                              67  B5 00021              TSTW     COMMAND_DESC
                                              03  12 00023  1$:          BNEQ     2$
                                          00A3  31 00025              BRW      6$
                       00000000G  00           00  FB 00028  2$:        CALLS    #0, MAIL$OPEN_IF
                                          F3  50  E9 0002F              BLBC     STATUS, 1$
                                  0A 00000000G  00  E8 00032              BLBS     MAIL$GL_FLAGS, 3$
                                       007E80AA   8F  DD 00039           PUSHL    #8290474
                                              68  01  FB 0003F           CALLS    #1, LIB$SIGNAL
                                              04 00042              RET
                                    55           67  3C 00043  3$:        MOVZWL   COMMAND_DESC, R5
                                    54        04   A7  DO 00046           MOVL     COMMAND_DESC+4, R4
                                    50 00000000G   00  DO 0004A           MOVL     MAIL$SD_MAIL+4, RO
00000000G  00                    00           64  55  2D 00051           CMPC5    R5, (R4), #0, MAIL$SD_MAIL, (RO)
                                              60 0005A
                                              13  13 0005B              BEQL     4$
                                    50 00000000G   00  DO 0005D           MOVL     MAIL$SD_NEWMAIL+4, RO
00000000G  00                    00           64  55  2D 00064           CMPC5    R5, (R4), #0, MAIL$SD_NEWMAIL, (RO)
                                              60 0006D
                                              0E  12 0006E              BNEQ     5$
                                              57  DD 00070  4$:          PUSHL    R7
                                              01  DD 00072              PUSHL    #1
                                       007E80E2   8F  DD 00074           PUSHL    #8290530
                                              68  03  FB 0007A           CALLS    #3, LIB$SIGNAL
                                              04 0007D              RET
            30              00           6E   00  2C 0007E  5$:          MOVC5    #0, (SP), #0, #48, RECBUF
                                              6E 00083
                                              6E  02  DO 00084           MOVL     #2, RECORD_TYPE
                                              56  67  3C 00087           MOVZWL   COMMAND_DESC, R6
                         30   AE              56  90 0008A              MOVB     R6, WASTENAME
                         50        04   A7   DO 0008E              MOVL     COMMAND_DESC+4, RO
                         60           56  28 00092              MOVC3    R6, (RO), WASTENAME+1
                 31   AE        58   AE   31  A6  9E 00097           MOVAB    49(R6), RECDESC
                              5C   AE        6E  9E 0009C           MOVAB    RECBUF, RECDESC+4
                              58   AE  9F 000A0              PUSHAB   RECDESC
                       00000000G  00  9F 000A3              PUSHAB   MAIL$T_RD_RAB
                       00000000G  00           02  FB 000A9           CALLS    #2, MAIL$UPDATE_INFO_REC
                                              50  E9 000B0              BLBC     RO, 6$
                                              57  DD 000B3              PUSHL    R7
                       00000000G  00           01  FB 000B5           CALLS    #1, MAIL$MOVE_WASTEBASKET
                                              57  DD 000BC              PUSHL    R7
                              00000000G  00  9F 000BE              PUSHAB   MAIL$Q_WASTEDESC
                       00000000G  00           02  FB 000C4           CALLS    #2, STR$COPY_DX
                                       50  01  DO 000CB  6$:          MOVL     #1, RO
                                              04 000CE              RET
```

; Routine Size: 207 bytes,   Routine Base: $CODE$ + 04DC

```
: 601        0731  1 GLOBAL ROUTINE MAIL$CMD_SET_FILE =
: 602        0732  1 !++
: 603        0733  1 ! FUNCTIONAL DESCRIPTION:
: 604        0734  1 !
: 605        0735  1 !       process the SET FILE command
: 606        0736  1 !
: 607        0737  1 !--
: 608        0738  2 BEGIN
: 609        0739  2 CLI$GET_VALUE(SD_FILE,COMMAND_DESC);
: 610        0740  2
: 611        0741  2 MAIL$OPEN_FILE(COMMAND_DESC);
: 612        0742  2 RETURN TRUE
: 613        0743  1 END;
```

```
                                   0004 00000        .ENTRY   MAIL$CMD_SET_FILE, Save R2              ; 0731
                   52 00000000' 00  9E 00002         MOVAB    COMMAND_DESC, R2
                                52  DD 00009         PUSHL    R2                                      ; 0739
                        FA5A    CF  9F 0000B         PUSHAB   SD_FILE
           00000000G  00         02  FB 0000F        CALLS    #2, CLI$GET_VALUE
                                52  DD 00016         PUSHL    R2                                      ; 0741
           00000000G  00         01  FB 00018        CALLS    #1, MAIL$OPEN_FILE
                       50         01  D0 0001F        MOVL     #1, R0                                 ; 0742
                                 04 00022            RET                                             ; 0743
```

; Routine Size: 35 bytes,   Routine Base: $CODE$ + 05AB

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

N 10
16-Sep-1984 01:20:06   VAX-11 Bliss-32 V4.0-742   Page 29
14-Sep-1984 12:42:32   DISK$VMSMASTER:[MAIL.SRC]SET.B32;1   (17)

```
:  615    0744  1 ROUTINE RENAME_SUCCESS (OLD_SPEC,NEW_SPEC,LOG_FLAG) =
:  616    0745  1 !++
:  617    0746  1 !  FUNCTIONAL DESCRIPTION:
:  618    0747  1 !
:  619    0748  1 !       This routine is called by LIB$RENAME_FILE on a successful RENAME
:  620    0749  1 !--
:  621    0750  2 BEGIN
:  622    0751  2
:  623    0752  2 MAP
:  624    0753  2     OLD_SPEC : REF $BBLOCK;
:  625    0754  2
:  626    0755  2 IF CH$EQL(.OLD_SPEC[DSC$W_LENGTH],.OLD_SPEC[DSC$A_POINTER],
:  627    0756  2               .MAIL$Q_RD_DESC[DSC$W_LENGTH],.MAIL$Q_RD_DESC[DSC$A_POINTER])
:  628    0757  2     THEN STR$COPY_DX(MAIL$Q_RD_DESC,.NEW_SPEC);
:  629    0758  2
:  630    0759  2 IF .LOG_FLAG
:  631    0760  2     THEN SIGNAL(MAIL$_RENAMED,2,.OLD_SPEC,.NEW_SPEC);
:  632    0761  2
:  633    0762  2 RETURN TRUE
:  634    0763  1 END;
```

```
                                          003C 00000 RENAME_SUCCESS:
                                                        .WORD   Save R2,R3,R4,R5              : 0744
                          55 00000000G 00  9E 00002      MOVAB   MAIL$Q_RD_DESC, R5           : 0755
                          54       04  AC  D0 00009      MOVL    OLD_SPEC, R4                 : 0756
                          50       04  A5  D0 0000D      MOVL    MAIL$Q_RD_DESC+4, R0         : 0756
        65            00     04  B4  64  2D 00011      CMPC5   (R4), 84(R4), #0, MAIL$Q_RD_DESC, (R0)  : 0755
                          60           00017
                                   0C  12 00018      BNEQ    1$
                                   08  AC  DD 0001A      PUSHL   NEW_SPEC                      : 0757
                                   55  DD 0001D      PUSHL   R5
                    00000000G 00  02  FB 0001F      CALLS   #2, STR$COPY_DX
                          14           0C  AC  E9 00026 1$:  BLBC    LOG_FLAG, 2$             : 0759
                                   08  AC  DD 0002A      PUSHL   NEW_SPEC                      : 0760
                                   54  DD 0002D      PUSHL   R4
                                   02  DD 0002F      PUSHL   #2
                    007E12A3  8F  DD 00031      PUSHL   #8262307
                    00000000G 00  04  FB 00037      CALLS   #4, LIB$SIGNAL
                          50       01  D0 0003E 2$:  MOVL    #1, R0                           : 0762
                                   04 00041      RET                                          : 0763
```

; Routine Size: 66 bytes,   Routine Base: $CODE$ + 05CE

```
 636    0764  1 ROUTINE RENAME_ERROR (OLD_SPEC,NEW_SPEC,RMSSTS,RMSSTV,ERROR_SOURCE,LOG_FLAG) =
 637    0765  1 !++
 638    0766  1 ! FUNCTIONAL DESCRIPTION:
 639    0767  1 !
 640    0768  1 !      Error routine called by LIB$RENAME_FILE on an error
 641    0769  1 !--
 642    0770  2 BEGIN
 643    0771  2 MAP
 644    0772  2     RMSSTS : REF VECTOR[,LONG],
 645    0773  2     RMSSTV : REF VECTOR[,LONG];
 646    0774  2
 647    0775  2 CASE .ERROR_SOURCE FROM 0 TO 2
 648    0776  2 OF SET
 649    0777  2
 650    0778  2 [0] :                              !Error searching for old_file
 651    0779  2    IF .RMSSTS[0] EQL RMS$_FNF
 652    0780  2       THEN RETURN TRUE
 653    0781  2       ELSE SIGNAL(MAIL$_SEARCHFAIL,1,.OLD_SPEC,
 654    0782  2                               .RMSSTS[0],.RMSSTV[0]);
 655    0783  2
 656    0784  2 [1,2] :                            !Error parsing new file
 657    0785  2    SIGNAL(MAIL$_SEARCHFAIL,1,.NEW_SPEC,.RMSSTS[0],.RMSSTV[0]);
 658    0786  2 TES;
 659    0787  2
 660    0788  2 RETURN FALSE                       !Force LIB$RENAME_FILE to terminate
 661    0789  1 END;
```

```
                              0000 00000 RENAME_ERROR:
                                              .WORD    Save nothing                    : 0764
        02        00    14  AC CF 00002       CASEL    ERROR_SOURCE, #0, #2            : 0775
      001F       001F       0006    00007 1$: .WORD    2$-1$,-
                                                       4$-1$,-
                                                       4$-1$
    00018292  8F       0C  BC D1 0000D 2$:     CMPL     @RMSSTS, #98962                 : 0779
                       04  12 00015           BNEQ     3$
              50       01  D0 00017           MOVL     #1, R0                          : 0780
                       04  0001A              RET
                   10  BC DD 0001B 3$:        PUSHL    @RMSSTV                         : 0782
                   0C  BC DD 0001E            PUSHL    @RMSSTS
                   04  AC DD 00021            PUSHL    OLD_SPEC                        : 0781
                   09  11 00024               BRB      5$
                   10  BC DD 00026 4$:        PUSHL    @RMSSTV                         : 0785
                   0C  BC DD 00029            PUSHL    @RMSSTS
                   08  AC DD 0002C            PUSHL    NEW_SPEC
                   01  DD 0002F 5$:           PUSHL    #1
         007E123A  8F  DD 00031               PUSHL    #8262202
    00000000G 00   05  FB 00037               CALLS    #5, LIB$SIGNAL
                   50  D4 0003E               CLRL     R0                             : 0788
                   04  00040                  RET                                     : 0789
```

```
; Routine Size:  65 bytes,     Routine Base:  $CODE$ + 0610
```

```
663     0790   1 ROUTINE SET_NEW_DIR (SUB_DESC, FULL_DESC, LOG_FLAG) =
664     0791   1 !++
665     0792   1 ! FUNCTIONAL DESCRIPTION:
666     0793   1 !
667     0794   1 !     Rename MAIL.MAI into the new directory.  Then update
668     0795   1 !     VMSMAIL.DAT to have the new subdirectory spec.  Then rename
669     0796   1 !     the rest of the .MAI files
670     0797   1 !
671     0798   1 ! Inputs:
672     0799   1 !
673     0800   1 !     SUB_DESC = address of descriptor of subdir ([.MAIL])
674     0801   1 !     FULL_DESC = address of descriptor of full subdir name (d:[user.mail])
675     0802   1 !     LOG_FLAG = true to /log, false otherwise
676     0803   1 !
677     0804   1 !--
678     0805   2 BEGIN
679     0806   2
680     0807   2 MAP
681     0808   2     SUB_DESC : REF $BBLOCK,
682     0809   2     FULL_DESC : REF $BBLOCK;
683     0810   2
684     0811   2 LOCAL
685     0812   2     DESC : VECTOR[2,LONG];
686     0813   2 !
687     0814   2 ! Rename MAIL.MAI;* to the new directory
688     0815   2 !
689     0816   2 STR$CONCAT(DYN_DESC,MAIL$Q_MAIL_MAI,$DESCRIPTOR(';*'));
690   P 0817   2 IF_ERR(LIB$RENAME_FILE(DYN_DESC,.FULL_DESC,MAIL$Q_USERDEF,0,0,
691   P 0818   2                           RENAME_SUCCESS,RENAME_ERROR,0,.LOG_FLAG);,
692     0819   2           RETURN TRUE);
693     0820   2
694     0821   2 !
695     0822   2 ! Update record in VMSMAIL.  If an error occurs, rename MAIL.MAI;* to
696     0823   2 ! the old directory.
697     0824   2 !
698   P 0825   2 IF_ERR(MAIL$GETLK_SYSMAI_REC(MAIL$Q_USERNAME,DESC);,
699   P 0826   2         LIB$RENAME_FILE(DYN_DESC,MAIL$Q_USERDEF,.FULL_DESC,0,0,
700   P 0827   2                           RENAME_SUCCESS,RENAME_ERROR,0,1); !always log
701     0828   2         RETURN TRUE);
702     0829   2 CH$MOVE(.DESC[0],.DESC[1],.MAIL$L_USRSYSBUF);
703     0830   2 CH$MOVE(.SUB_DESC[DSC$W_LENGTH],.SUB_DESC[DSC$A_POINTER]
704     0831   2         MAIL$L_USRSYSBUF[VMD_T_FWDNAM]+.MAIL$L_USRSYSBUF[VMD_B_FWDLNG]+
705     0832   2         .MAIL$L_USRSYSBUF[VMD_B_FNMLNG]);
706     0833   2 MAIL$L_USRSYSBUF[VMD_B_DIRLNG] = .SUB_DESC[DSC$W_LENGTH];
707     0834   2
708   P 0835   2 IF_ERR(MAIL$UPDATE_SYSMAI_REC(.MAIL$L_USRSYSBUF);,
709   P 0836   2         LIB$RENAME_FILE(DYN_DESC,MAIL$Q_USERDEF,.FULL_DESC,0,0,
710   P 0837   2                           RENAME_SUCCESS,RENAME_ERROR,0,1); !always log
711     0838   2         RETURN TRUE);
712     0839   2
713     0840   2 !
714     0841   2 ! Finally rename the rest of the mail files to the new directory
715     0842   2 !
716     0843   2 LIB$RENAME_FILE($DESCRIPTOR('*.MAI;*'),.FULL_DESC,MAIL$Q_USERDEF,0,0,
717     0844   2                           RENAME_SUCCESS,RENAME_ERROR,0,.LOG_FLAG);
718     0845   2 !
719     0846   2 ! Set up the strings containing the mail file directory spec and the
```

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

D 11
16-Sep-1984 01:20:06
14-Sep-1984 12:42:32

VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]SET.B32;1

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```
:  720      0847  2 ! default mail file spec.
:  721      0848  2 !
:  722      0849  2 STR$COPY_DX(MAIL$Q_USERDEF,.FULL_DESC);
:  723      0850  2 STR$CONCAT(MAIL$Q_MAILDEF,.FULL_DESC,MAIL$Q_MAIL_MAI);
:  724      0851  2 RETURN TRUE
:  725      0852  1 END;


                           2A  3B  00651 P.AAW:  .ASCII   \;*\                              ;
                               00653          .BLKB    1
                   00000002. 00654 P.AAV:  .LONG    2
                   00000000' 00658          .ADDRESS P.AAW                                  :
          2A  3B  49  41  4D  2E  2A  0065C P.AAY:  .ASCII   \*.MAI;*\                       :
                               00663          .BLKB    1
                   00000007  00664 P.AAX:  .LONG    7                                        :
                   00000000' 00668          .ADDRESS P.AAY                                   :


                   0FFC 00000 SET_NEW_DIR:
                                         .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11      : 0790
      5B  00000000'  00  9E  00002        MOVAB    DYN_DESC, R11
      5A  00000000G  00  9E  00009        MOVAB    MAIL$Q_USERDEF, R10
          59          AF  9E  00010        MOVAB    RENAME_ERROR, R9
          5E          08  C2  00014        SUBL2    #8, SP
                      CE  AF  9F  00017    PUSHAB   P.AAV                                    : 0816
                    F97E  CF  9F  0001A    PUSHAB   MAIL$Q_MAIL_MAI
                      5B  DD  0001E        PUSHL    R11
      00000000G  00  03  fB  00020        CALLS    #3, STR$CONCAT
                  OC  AC  DD  00027        PUSHL    LOG_FLAG                                 : 0819
                      7E  D4  0002A        CLRL     -(SP)
                      59  DD  0002C        PUSHL    R9
                      BE  A9  9F  0002E    PUSHAB   RENAME_SUCCESS
                      7E  7C  00031        CLRQ     -(SP)
                      5A  DD  00033        PUSHL    R10
          58      08  AC  D0  00035        MOVL     FULL_DESC, R8
                      58  DD  00039        PUSHL    R8
                      5B  DD  0003B        PUSHL    R11
      00000000G  00  09  fB  0003D        CALLS    #9, LIB$RENAME_FILE
                  5C  50  E9  00044        BLBC     STATUS, 2$
                      5E  DD  00047        PUSHL    SP                                       : 0828
          00000000G  00  9F  00049        PUSHAB   MAIL$Q_USERNAME
          00000000G  00  02  fB  0004F    CALLS    #2, MAIL$GETLK_SYSMAI_REC
                  32  50  E9  00056        BLBC     STATUS, 1$
          56  00000000G  00  D0  00059    MOVL     MAIL$L_USRSYSBUF, R6                      : 0829
      66      04  BE  6E  28  00060        MOVC3    DESC, @DESC+4, (R6)
          57      04  AC  D0  00065        MOVL     SUB_DESC, R7                             : 0830
          50      43  A6  9A  00069        MOVZBL   67(R6), R0                               : 0831
          50      56  C0  0006D            ADDL2    R6, R0
          51      42  A6  9A  00070        MOVZBL   66(R6), R1                               : 0832
      44 A140  04  B7  67  28  00074        MOVC3    (R7), @4(R7), 68(R1)[R0]                 : 0831
          41  A6  67  90  0007B            MOVB     (R7), 65(R6)                             : 0833
                      56  DD  0007F        PUSHL    R6                                       : 0838
          00000000G  00  01  fB  00081    CALLS    #1, MAIL$UPDATE_SYSMAI_REC
                  1A  50  E8  00088        BLBS     STATUS, 3$
                      01  DD  0008B 1$:   PUSHL    #1
```

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

E 11
16-Sep-1984 01:20:06   VAX-11 Bliss-32 V4.0-742
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```
                                    7E D4 0008D        CLRL    -(SP)
                                    59 DD 0008F        PUSHL   R9
                         BE  A9 9F 00091        PUSHAB  RENAME_SUCCESS
                                    7E 7C 00094        CLRQ    -(SP)
                                    58 DD 00096        PUSHL   R8
                                    5A DD 00098        PUSHL   R10
                                    5B DD 0009A        PUSHL   R11
         00000000G  00              09 FB 0009C        CALLS   #9, LIB$RENAME_FILE
                                    39 11 000A3 2$:    BRB     4$
                         0C  AC DD 000A5 3$:    PUSHL   LOG_FLAG
                                    7E D4 000A8        CLRL    -(SP)
                                    59 DD 000AA        PUSHL   R9
                         BE  A9 9F 000AC        PUSHAB  RENAME_SUCCESS
                                    7E 7C 000AF        CLRQ    -(SP)
                         0500 8F BB 000B1        PUSHR   #^M<R8,R10>
                         FF3F CF 9F 000B5        PUSHAB  P.AAX
         00000000G  00              09 FB 000B9        CALLS   #9, LIB$RENAME_FILE
                                    58 DD 000C0        PUSHL   R8
                                    5A DD 000C2        PUSHL   R10
         00000000G  00              02 FB 000C4        CALLS   #2, STR$COPY_DX
                         F8CD CF 9F 000CB        PUSHAB  MAIL$Q_MAIL_MAI
                                    58 DD 000CF        PUSHL   R8
                   00000000G 00 9F 000D1        PUSHAB  MAIL$Q_MAILDEF
         00000000G  00              03 FB 000D7        CALLS   #3, STR$CONCAT
                         50              01 D0 000DE 4$:    MOVL    #1, R0
                                    04 000E1        RET
```

; Routine Size: 226 bytes,   Routine Base: $CODE$ + 066C

```
  727    0853  1 GLOBAL ROUTINE MAIL$CMD_SET_DIR =
  728    0854  1 !++
  729    0855  1 ! FUNCTIONAL DESCRIPTION:
  730    0856  1 !
  731    0857  1 !         The SET MAIL_DIRECTORY command specifies where MAIL should put
  732    0858  1 !         all its .MAI and .MSG files.
  733    0859  1 !
  734    0860  1 !--
  735    0861  2 BEGIN
  736    0862  2
  737    0863  2 BIND
  738    0864  2     SUB_STRING = DYN_DESC[DSC$A_POINTER] : REF VECTOR[,BYTE];
  739    0865  2
  740    0866  2 LOCAL
  741    0867  2     TMPBUF : VECTOR[NAM$C_MAXRSS,BYTE],
  742    0868  2     PTR,
  743    0869  2     STATUS,
  744    0870  2     LOG_FLAG,
  745    0871  2     DESC : VECTOR[2,LONG],
  746    0872  2     END_CHAR : REF VECTOR[,BYTE];
  747    0873  2
  748  P 0874  2 IF_ERR(CLI$GET_VALUE(SD_FILE,COMMAND_DESC);,
  749    0875  2         RETURN TRUE);
  750    0876  2
  751    0877  2 IF .COMMAND_DESC[DSC$W_LENGTH] EQL 0
  752    0878  2     THEN RETURN TRUE;
  753    0879  2
  754  P 0880  2 IF_ERR(CHECK_STRING(COMMAND_DESC,NAM$C_MAXRSS);,
  755    0881  2         RETURN TRUE);
  756    0882  2
  757    0883  2 LOG_FLAG = CLI$PRESENT(SD_LOG);
  758    0884  2 !
  759    0885  2 ! Syntax check that the parameter is indeed a sub-directory name
  760    0886  2 !
  761    0887  2 STR$COPY_DX(DYN_DESC,COMMAND_DESC);
  762    0888  2 END_CHAR = SUB_STRING[.COMMAND_DESC[DSC$W_LENGTH]-1];
  763    0889  2 IF NOT CH$FAIL(CH$FIND_CH(.COMMAND_DESC[DSC$W_LENGTH],
  764    0890  2                          .COMMAND_DESC[DSC$A_POINTER],%C'-'))
  765    0891  2     OR NOT CH$FAIL(CH$FIND_SUB(.COMMAND_DESC[DSC$W_LENGTH],
  766    0892  2                          .COMMAND_DESC[DSC$A_POINTER],2,UPLIT('..')))
  767    0893  2     THEN RETURN SIGNAL(MAIL$_ILLSUBDIR,1,COMMAND_DESC);
  768    0894  4 IF ((.SUB_STRING[0] EQL %C'[')
  769    0895  3     AND (.END_CHAR[0] NEQ %C']'))
  770    0896  4     OR ((.SUB_STRING[0] EQL %C'<')
  771    0897  3         AND (.END_CHAR[0] NEQ %C'>'))
  772    0898  2     THEN RETURN SIGNAL(MAIL$_NOTSUBDIR,1,COMMAND_DESC);
  773    0899  2
  774    0900  3 IF (.SUB_STRING[0] EQL %C'[')
  775    0901  3     THEN SUB_STRING[0] = %C'<';
  776    0902  3 IF (.END_CHAR[0] EQL %C']')
  777    0903  3     THEN END_CHAR[0] = %C'>';
  778    0904  3 IF (.SUB_STRING[0] NEQ %C'<') OR (.SUB_STRING[1] NEQ %C'.')
  779    0905  3     OR (.END_CHAR[0] NEQ %C'>')
  780    0906  3     THEN RETURN SIGNAL(MAIL$_NOTSUBDIR,1,COMMAND_DESC);
  781    0907  2
  782  P 0908  2 IF_ERR(MAIL$GET_USER(MAIL$Q_USERNAME);,
  783    0909  2         RETURN TRUE);
```

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

G 11
16-Sep-1984 01:20:06
14-Sep-1984 12:42:32

VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[MAIL.SRC]SET.B32;1

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```
784    0910  2
785    0911  2    DESC[0] = .(MAIL$T_UAF_BUFF[UAF$T_DEFDEV])<CS_COUNT>;
786    0912  2    DESC[1] = (MAIL$T_UAF_BUFF[UAF$T_DEFDEV])<CS_STRING>;
787    0913  2    STR$COPY_DX(DYN_DESC_2,DESC);
788    0914  2    DESC[0] = .(MAIL$T_UAF_BUFF[UAF$T_DEFDIR])<CS_COUNT>;
789    0915  2    DESC[1] = (MAIL$T_UAF_BUFF[UAF$T_DEFDIR])<CS_STRING>;
790    0916  2    STR$APPEND(DYN_DESC_2,DESC);
791    0917  2
792    0918  2    PTR = CH$MOVE(.DYN_DESC_2[DSC$W_LENGTH]-1,.DYN_DESC_2[DSC$A_POINTER],TMPBUF);
793    0919  2    PTR = CH$MOVE(.DYN_DESC[DSC$W_LENGTH]-1,.DYN_DESC[DSC$A_POINTER]+1,.PTR);
794    0920  2
795    0921  2    DESC[0] = .PTR - TMPBUF;
796    0922  2    DESC[1] = TMPBUF;
797    0923  2    END_CHAR = .DYN_DESC_2[DSC$W_LENGTH] + .DYN_DESC_2[DSC$A_POINTER]-1;
798    0924  2    IF .END_CHAR[0] EQL %C']'
799    0925  3    THEN BEGIN
800    0926  3        END_CHAR = .DESC[0] + .DESC[1] - 1;
801    0927  3        END_CHAR[0] = %C']';
802    0928  2        END;
803    0929  2  !
804    0930  2  ! First create the directory.  Then, rename MAIL.MAI into that directory.
805    0931  2  ! If that fails, give up.  If that succeeds, then update VMSMAIL.DAT to
806    0932  2  ! contain the subdirectory.  After that, rename the rest of the *.mai
807    0933  2  ! files to the new directory.  By doing it this way, the time that the
808    0934  2  ! mail.mai file and vmsmail.dat are out of synch is minimized.  Note
809    0935  2  ! that errors on the rename of the rest of the files are not dealt with
810    0936  2  ! in a meaningful way.
811    0937  2
812    0938  3  IF NOT (STATUS = LIB$CREATE_DIR(DESC,MAIL$L_MYUIC,%REF(-1),%REF(DIR_PRO)))
813    0939  2      THEN RETURN SIGNAL(MAIL$_DIRNOTCRE,1,DESC,.STATUS)
814    0940  3      ELSE SIGNAL((IF .STATUS EQL SS$_CREATED
815    0941  3                   THEN MAIL$_CREATED
816    0942  2                   ELSE MAIL$_EXISTS),1,DESC);
817    0943  2
818  P 0944  2  IF_ERR(SET_NEW_DIR(COMMAND_DESC,DESC,.LOG_FLAG);,
819    0945  2          RETURN .STATUS);
820    0946  2
821    0947  2  RETURN TRUE
822    0948  1  END;
```

```
                                 0074E        .BLKB    2
              00  00  2E  2E     00750 P.AAZ:  .ASCII   \..\<0><0>                        :

                                 SUB_STRING=            DYN_DESC+4


                                 0FFC 00000   .ENTRY   MAIL$CMD_SET_DIR, Save R2,R3,R4,R5,R6,R7,-   : 0853
                                                       R8,R9,R10,R11
                   5B   F8BA  CF 9E 00002      MOVAB    SD_FILE, R11
                   5A 00000000' 00 9E 00007    MOVAB    COMMAND_DESC, R10
                   5E   FEF0  CE 9E 0000E      MOVAB    -272(SP), SP
                             5A DD 00013       PUSHL    R10                                : 0875
                             5B DD 00015       PUSHL    R11
              00000000G 00   02 FB 00017       CALLS    #2, CLI$GET_VALUE
                       04    50 E9 0001E       BLBC     STATUS, 1$
```

```
                                    6A  B5  00021         TSTW    COMMAND_DESC                    : 0877
                                    03  12  00023         BNEQ    2$
                            01B2    31  00025  1$:        BRW     19$
                        7E  FF      8F  9A  00028  2$:    MOVZBL  #255, -(SP)                     : 0881
                                    5A  DD  0002C         PUSHL   R10
                    F932    CF      02  FB  0002E         CALLS   #2, CHECK_STRING
                            EF      50  E9  00033         BLBC    STATUS, 1$
                                0C  AB  9F  00036         PUSHAB  SD_LOG                          : 0883
                00000000G   00      01  FB  00039         CALLS   #1, CLI$PRESENT
                            59      50  D0  00040         MOVL    R0, LOG_FLAG
                                    5A  DD  00043         PUSHL   R10                             : 0887
                                08  AA  9F  00045         PUSHAB  DYN_DESC
                00000000G   00      02  FB  00048         CALLS   #2, STR$COPY_DX
                            52      6A  3C  0004F         MOVZWL  COMMAND_DESC, R2                : 0888
                    56      52  0C  AA  C1  00052         ADDL3   SUB_STRING, R2, R6
                                    56  D7  00057         DECL    END_CHAR
                            53  04  AA  D0  00059         MOVL    COMMAND_DESC+4, R3              : 0890
                    63      52      2D  3A  0005D         LOCC    #45, R2, (R3)                   : 0889
                                    02  12  00061         BNEQ    3$
                                    51  D4  00063         CLRL    R1
                                    51  D5  00065  3$:    TSTL    R1                              : 0890
                                    11  12  00067         BNEQ    5$
        63          52      073C    CB                                                           : 0892
                                    02  39  00069         MATCHC  #2, P.AAZ, R2, (R3)
                                    03  13  00070         BEQL    4$
                            53      02  D0  00072         MOVL    #2, R3
                            53      02  C2  00075  4$:    SUBL2   #2, R3
                                    0C  13  00078         BEQL    6$
                                    5A  DD  0007A  5$:    PUSHL   R10                             : 0893
                                    01  DD  0007C         PUSHL   #1
                        007E80DA    8F  DD  0007E         PUSHL   #8290522
                                    4A  11  00084         BRB     12$
                    50      0C  AA  D0  00086  6$:        MOVL    SUB_STRING, R0                  : 0894
                    5B  8F          60  91  0008A         CMPB    (R0), #91
                                    06  12  0008E         BNEQ    7$
                    5D  8F          66  91  00090         CMPB    (END_CHAR), #93                 : 0895
                                    30  12  00094         BNEQ    11$
                        3C          60  91  00096  7$:    CMPB    (R0), #60                       : 0896
                                    05  12  00099         BNEQ    8$
                        3E          66  91  0009B         CMPB    (END_CHAR), #62                 : 0897
                                    26  12  0009E         BNEQ    11$
                    50      0C  AA  D0  000A0  8$:        MOVL    SUB_STRING, R0                  : 0900
                    5B  8F          60  91  000A4         CMPB    (R0), #91
                                    03  12  000A8         BNEQ    9$
                        60          3C  90  000AA         MOVB    #60, (R0)                       : 0901
                    5D  8F          66  91  000AD  9$:    CMPB    (END_CHAR), #93                 : 0902
                                    03  12  000B1         BNEQ    10$
                        66          3E  90  000B3         MOVB    #62, (END_CHAR)                 : 0903
                        3C          60  91  000B6  10$:   CMPB    (R0), #60                       : 0904
                                    0B  12  000B9         BNEQ    11$
                    2E      01  A0  91  000BB         CMPB    1(R0), #46
                                    05  12  000BF         BNEQ    11$
                        3E          66  91  000C1         CMPB    (END_CHAR), #62                 : 0905
                                    12  13  000C4         BEQL    13$
                                    5A  DD  000C6  11$:   PUSHL   R10                             : 0906
                                    01  DD  000C8         PUSHL   #1
                        007E80D2    8F  DD  000CA         PUSHL   #8290514
                00000000G   00      03  FB  000D0  12$:   CALLS   #3, LIB$SIGNAL
```

MAIL$SET
V04-000

VAX/VMS MAIL UTILITY SET COMMAND

I 11
16-Sep-1984 01:20:06   VAX-11 Bliss-32 V4.0-742   Page 37
14-Sep-1984 12:42:32   DISK$VMSMASTER:[MAIL.SRC]SET.B32;1   (20)

```
                                           04 000D7          RET
                    00000000G 00    9F 000D8  13$:   PUSHAB   MAIL$Q_USERNAME                    ; 0909
           00000000G 00              01 FB 000DE         CALLS    #1, MAIL$GET_USER
                              03     50 E8 000E5         BLBS     STATUS, 14$
                                   00EF 31 000E8         BRW      19$
                    50 00000000G 00  D0 000EB  14$:   MOVL     MAIL$T_UAF_BUFF, R0               ; 0911
              08 AE        74 A0 9A 000F2         MOVZBL   116(R0), DESC                         ; 0912
              0C AE        75 A0 9E 000F7         MOVAB    117(R0), DESC+4                       ; 0913
                           08 AE 9F 000FC         PUSHAB   DESC
                           10 AA 9F 000FF         PUSHAB   DYN_DESC_2
           00000000G 00     02 FB 00102         CALLS    #2, STR$COPY_DX
                    50 00000000G 00  D0 00109         MOVL     MAIL$T_UAF_BUFF, R0               ; 0914
              08 AE      0094 C0 9A 00110         MOVZBL   148(R0), DESC                         ; 0915
              0C AE      0095 C0 9E 00116         MOVAB    149(R0), DESC+4                       ; 0916
                           08 AE 9F 0011C         PUSHAB   DESC
                           10 AA 9F 0011F         PUSHAB   DYN_DESC_2
           00000000G 00     02 FB 00122         CALLS    #2, STR$APPEND
                           57 10 AA 3C 00129         MOVZWL   DYN_DESC_2, R7                     ; 0918
                    50 FF A7 9E 0012D         MOVAB    -1(R7), R0
                           58 14 AA D0 00131         MOVL     DYN_DESC_2+4, R8
        10 AE        68 50 28 00135         MOVC3    R0, (R8), TMPBUF
                           51 08 AA 3C 0013A         MOVZWL   DYN_DESC, R1                       ; 0919
                           51 D7 0013E         DECL     R1
                    50 0C AA D0 00140         MOVL     DYN_DESC+4, R0
              63 01 A0 51 28 00144         MOVC3    R1,-1(R0), (PTR)
                    50 10 AE 9E 00149         MOVAB    TMPBUF, R0                                ; 0921
        08 AE        53 50 C3 0014D         SUBL3    R0, PTR, DESC
                    0C AE 10 AE 9E 00152         MOVAB    TMPBUF, DESC+4                         ; 0922
                           56 FF A847 9E 00157         MOVAB    -1(R8)[R7], END_CHAR             ; 0923
                    5D 8F 66 91 0015C         CMPB     (END_CHAR), #93                           ; 0924
                           0E 12 00160         BNEQ     15$
        50 08 AE        0C AE C1 00162         ADDL3    DESC+4, DESC, R0                         ; 0926
                           56 FF A0 9E 00168         MOVAB    -1(R0), END_CHAR
                    66 5D 8F 90 0016C         MOVB     #93, (END_CHAR)                           ; 0927
              04 AE FF88 8F 3C 00170  15$:   MOVZWL   #65416, 4(SP)                              ; 0938
                           04 AE 9F 00176         PUSHAB   4(SP)
              04 AE        01 CE 00179         MNEGL    #1, 4(SP)
                           04 AE 9F 0017D         PUSHAB   4(SP)
                    00000000G 00 9F 00180         PUSHAB   MAIL$L_MYUIC
                           14 AE 9F 00186         PUSHAB   DESC
           00000000G 00     04 FB 00189         CALLS    #4, LIB$CREATE_DIR
                           15 50 E8 00190         BLBS     STATUS, 16$                           ; 0939
                           50 DD 00193         PUSHL    STATUS
                    0C AE 9F 00195         PUSHAB   DESC
                           01 DD 00198         PUSHL    #1
                    007E12C2 8F DD 0019A         PUSHL    #8262338
           00000000G 00     04 FB 001A0         CALLS    #4, LIB$SIGNAL
                           04 001A7         RET
                           08 AE 9F 001A8  16$:   PUSHAB   DESC                                  ; 0940
                           01 DD 001AB         PUSHL    #1
           00000619 8F        50 D1 001AD         CMPL     STATUS, #1561
                           08 12 001B4         BNEQ     17$
                    007E1073 8F DD 001B6         PUSHL    #8261747
                           06 11 001BC         BRB      18$
                    007E1293 8F DD 001BE  17$:   PUSHL    #8262291
           00000000G 00     03 FB 001C4  18$:   CALLS    #3, LIB$SIGNAL
                           59 DD 001CB         PUSHL    LOG_FLAG                                 ; 0945
```

```
                               0C   AE  9F 001CD          PUSHAB  DESC
                                    5A  DD 001D0          PUSHL   R10
                     FD41  CF        03  FB 001D2          CALLS   #3, SET_NEW_DIR
                           03        50  E9 001D7          BLBC    STATUS, 20$
                           50        01  D0 001DA 19$:     MOVL    #1, R0
                                     04 001DD 20$:         RET
```

                                                                                                                                    0947
                                                                                                                                    0948

; Routine Size: 478 bytes,   Routine Base: $CODE$ + 0754

```
 :  824     0949   1  GLOBAL ROUTINE MAIL$CMD_SET_NODIR =
 :  825     0950   1  !++
 :  826     0951   1  ! FUNCTIONAL DESCRIPTION:
 :  827     0952   1  !
 :  828     0953   1  !       Cancel any SET MAIL_DIRECTORY setting.  Cause the mail directory
 :  829     0954   1  !       to be SYS$LOGIN:
 :  830     0955   1  !
 :  831     0956   1  !--
 :  832     0957   2  BEGIN
 :  833     0958   2
 :  834     0959   2  LOCAL
 :  835     0960   2      DESC : VECTOR[2,LONG],
 :  836     0961   2      LOGIN_DESC : VECTOR[2,LONG],
 :  837     0962   2      LOG_FLAG;
 :  838     0963   2
 :  839     0964   2  !
 :  840     0965   2  ! If no mail directory set, then there is nothing to do
 :  841     0966   2
 :  842     0967   2  IF .MAIL$L_USRSYSBUF[VMD_B_DIRLNG] EQL 0
 :  843     0968   2      THEN RETURN TRUE;
 :  844     0969   2
 :  845     0970   2  LOG_FLAG = CLI$PRESENT(SD_LOG);
 :  846     0971   2
 :  847     0972   2  !
 :  848     0973   2  ! Get uaf record and get descriptor for logindev:[logindir]
 :  849     0974   2  !
 :  850   P 0975   2  IF_ERR(MAIL$GET_USER(MAIL$Q_USERNAME);,
 :  851     0976   2          RETURN TRUE);
 :  852     0977   2
 :  853     0978   2  DESC[0] = .(MAIL$T_UAF_BUFF[UAF$T_DEFDEV])<CS_COUNT>;
 :  854     0979   2  DESC[1] = (MAIL$T_UAF_BUFF[UAF$T_DEFDEV])<CS_STRING>;
 :  855     0980   2  STR$COPY_DX(COMMAND_DESC,DESC);
 :  856     0981   2  DESC[0] = .(MAIL$T_UAF_BUFF[UAF$T_DEFDIR])<CS_COUNT>;
 :  857     0982   2  DESC[1] = (MAIL$T_UAF_BUFF[UAF$T_DEFDIR])<CS_STRING>;
 :  858     0983   2  STR$APPEND(COMMAND_DESC,DESC);
 :  859     0984   2  DESC[0] = 0;
 :  860     0985   2  DESC[1] = DESC[0];
 :  861     0986   2
 :  862     0987   2  !
 :  863     0988   2  ! Rename all the mail files to the login directory.
 :  864     0989   2  ! Note that if the login directory doesn't exist, this command won't create it.
 :  865     0990   2  !
 :  866     0991   2  SET_NEW_DIR(DESC,COMMAND_DESC,.LOG_FLAG);
 :  867     0992   2
 :  868     0993   2  RETURN TRUE
 :  869     0994   1  END;
```

```
                              003C 00000        .ENTRY   MAIL$CMD_SET_NODIR, Save R2,R3,R4,R5    : 0949
          55 00000000G  00  9E 00002        MOVAB    MAIL$T_UAF_BUFF, R5                      :
          54    F6E1    CF  9E 00009        MOVAB    SD_LOG, R4                              :
          53 00000000'  00  9E 0000E        MOVAB    COMMAND_DESC, R3                         :
          5E           10  C2 00015        SUBL2    #16, SP                                 :
          50 00000000G  00  D0 00018        MOVL     MAIL$L_USRSYSBUF, R0                     : 0967
```

```
                                    41    A0  95  0001F         TSTB      65(R0)
                                    64  13  00022               BEQL      1$
                                    54  DD  00024               PUSHL     R4
            00000000G  00           01  FB  00026               CALLS     #1, CLI$PRESENT
                       52           50  D0  0002D               MOVL      R0, LOG_FLAG
            00000000G  00  00000000G  00  9F  00030             PUSHAB    MAIL$Q_USERNAME
            00000000G  00           01  FB  00036               CALLS     #1, MAIL$GET_USER
                       48           50  E9  0003D               BLBC      STATUS, 1$
                       50           65  D0  00040               MOVL      MAIL$T_UAF_BUFF, R0
                  08   AE      74   A0  9A  00043               MOVZBL    116(R0), DESC
                  0C   AE      75   A0  9E  00048               MOVAB     117(R0), DESC+4
                       08   AE  9F  0004D                       PUSHAB    DESC
                       53  DD  00050                            PUSHL     R3
            00000000G  00           02  FB  00052               CALLS     #2, STR$COPY_DX
                       50           65  D0  00059               MOVL      MAIL$T_UAF_BUFF, R0
                  08   AE    0094   C0  9A  0005C               MOVZBL    148(R0), DESC
                  0C   AE    0095   C0  9E  00062               MOVAB     149(R0), DESC+4
                       08   AE  9F  00068                       PUSHAB    DESC
                       53  DD  0006B                            PUSHL     R3
            00000000G  00           02  FB  0006D               CALLS     #2, STR$APPEND
                       08   AE  D4  00074                        CLRL      DESC
                  0C   AE      08   AE  9E  00077               MOVAB     DESC, DESC+4
                       52  DD  0007C                            PUSHL     LOG_FLAG
                       53  DD  0007E                            PUSHL     R3
                       10   AE  9F  00080                       PUSHAB    DESC
            FCB2   CF           03  FB  00083               CALLS     #3, SET_NEW_DIR
                       50           01  D0  00088  1$:          MOVL      #1, R0
                                    04  0008B               RET
```

; Routine Size: 140 bytes,   Routine Base: $CODE$ + 0932

```
;  871              0995  1 END
;  872              0996  0 ELUDOM
```

.EXTRN LIB$SIGNAL

```
;                        PSECT SUMMARY
;
;
;      Name                          Bytes                        Attributes
;
;   $OWN$                              24  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;   $CODE$                           2494  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
```

```
;                        Library Statistics
;
;
;                                  -------- Symbols --------   Pages       Processing
;      File                        Total   Loaded   Percent    Mapped      Time
;
;   _$255$DUA28:[SYSLIB]LIB.L32;1   18619      46        0      1000        00:01.4
;   _$255$DUA28:[MAIL.OBJ]MAILDEF.L32;1  457   23        5        26        00:00.4
```

```
;                        COMMAND QUALIFIERS

;        BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:SET/OBJ=OBJ$:SET MSRC$:SET/UPDATE=(ENH$:SET)

; Size:            2312 code + 206 data bytes
; Run Time:        00:26.1
; Elapsed Time:    01:36.7
; Lines/CPU Min:   2288
; Lexemes/CPU-Min: 27842
; Memory Used:     200 pages
; Compilation Complete
```

READ
LIS

SENDMSG
LIS

PRINT
LIS

SPAWNCMD
LIS

MANAGE

SET
LIS

ALFMAINT
LIS

SYSMAI
LIS

SHOW
LIS